

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P320963

Luminaire Tested: **GAN-SA9B-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52412 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

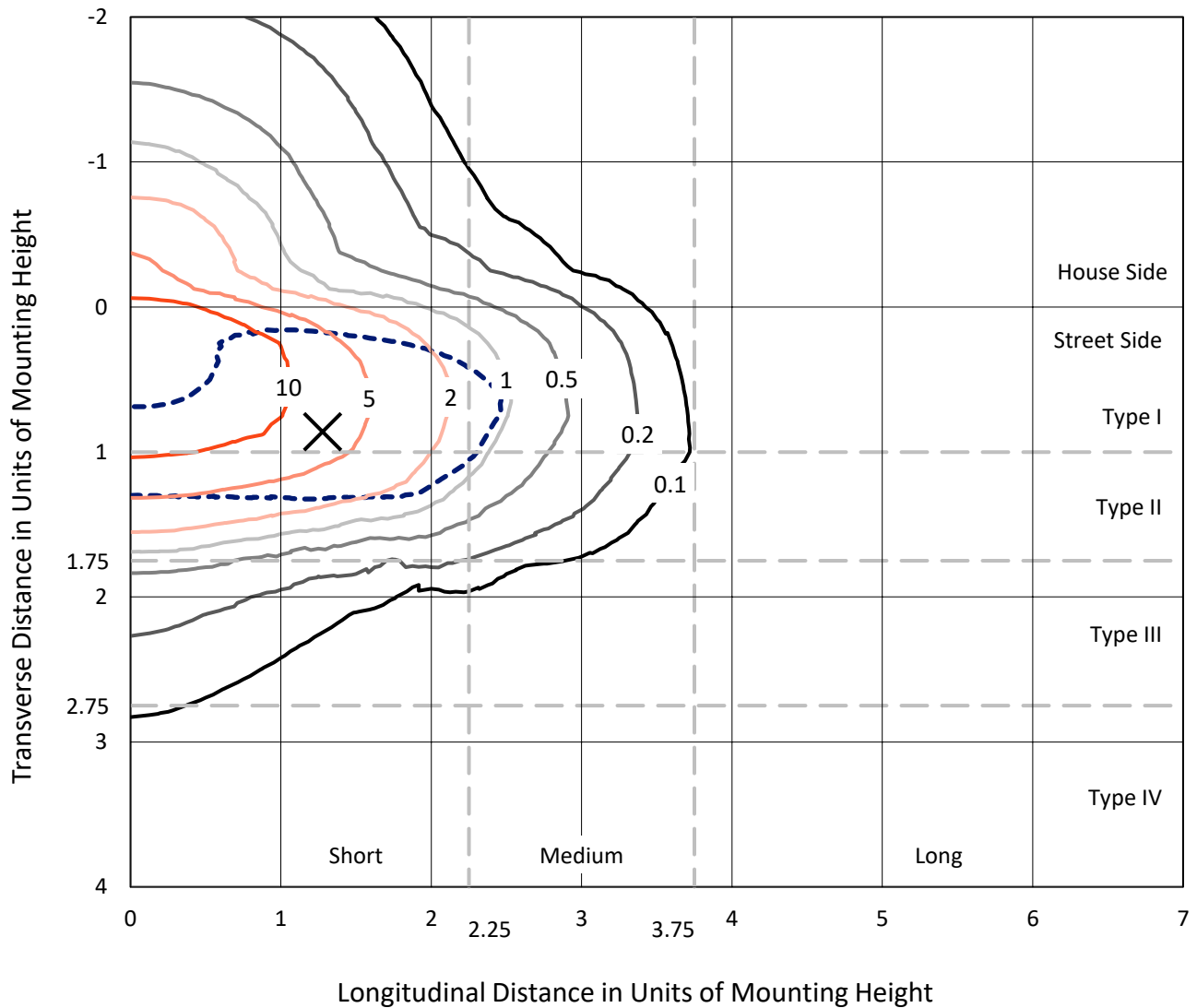
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

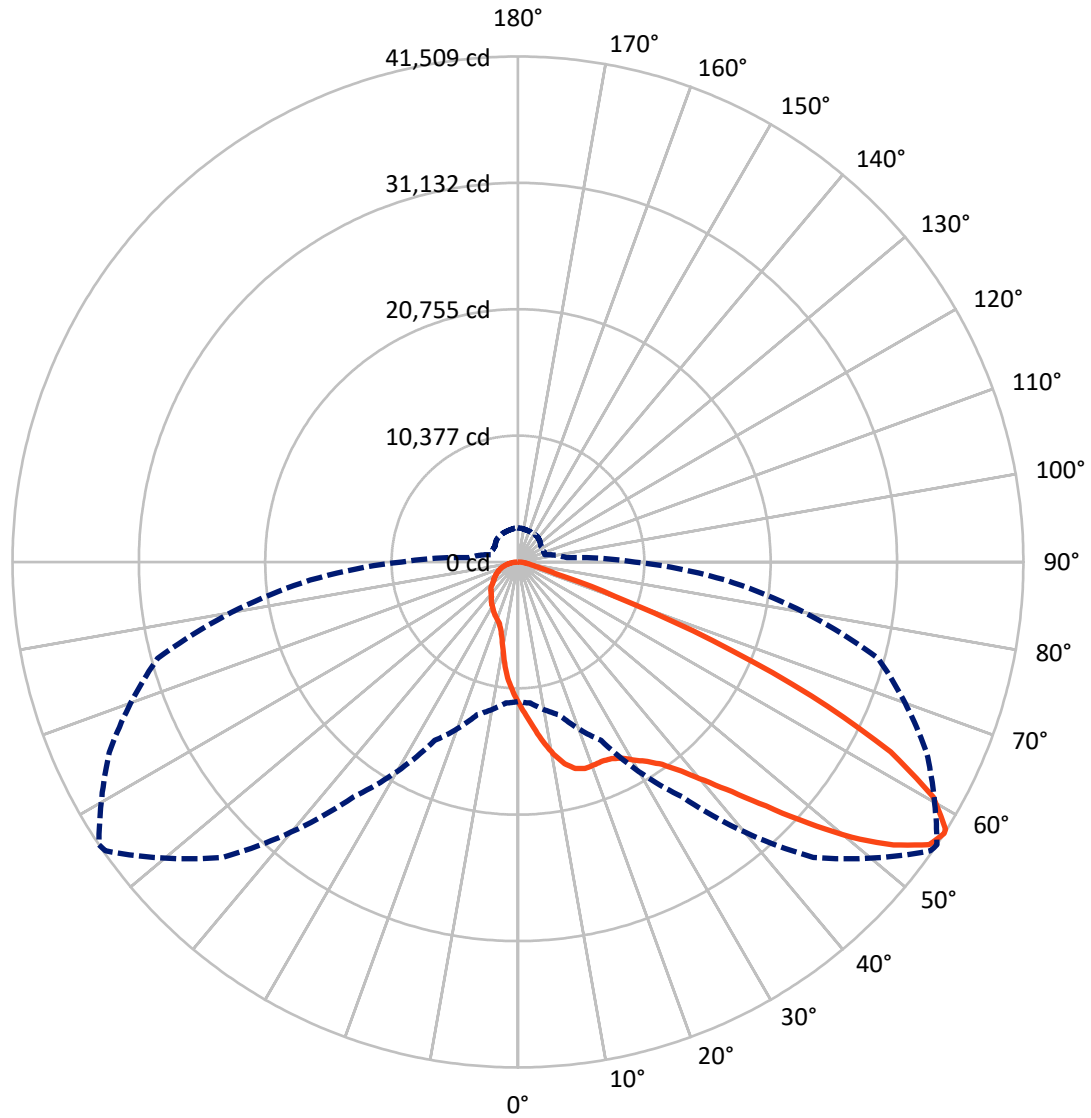
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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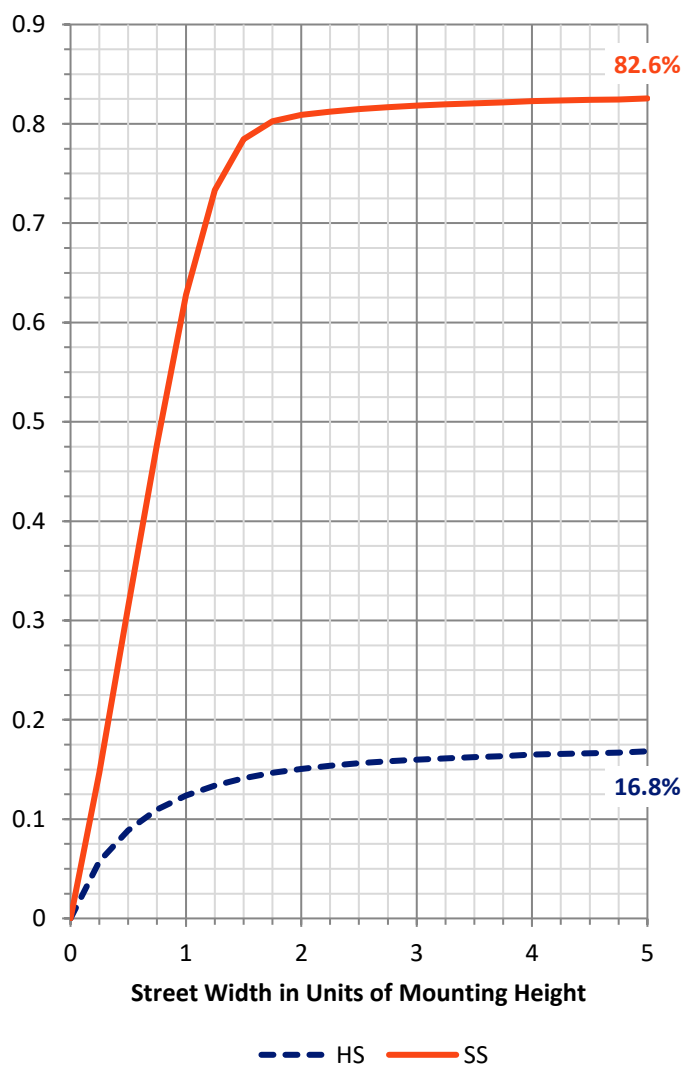
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9034.7	0.0	9034.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	43377.3	0.0	43377.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	52412.0	0.0	52412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.5	2.1
10°-20°	3139.6	6.0
20°-30°	5113.8	9.8
30°-40°	7644.5	14.6
40°-50°	11595.1	22.1
50°-60°	12996.1	24.8
60°-70°	7676.0	14.6
70°-80°	2515.0	4.8
80°-90°	621.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	52412.0	100.0
0°-180°	52412.0	100.0

Coefficient of Utilization



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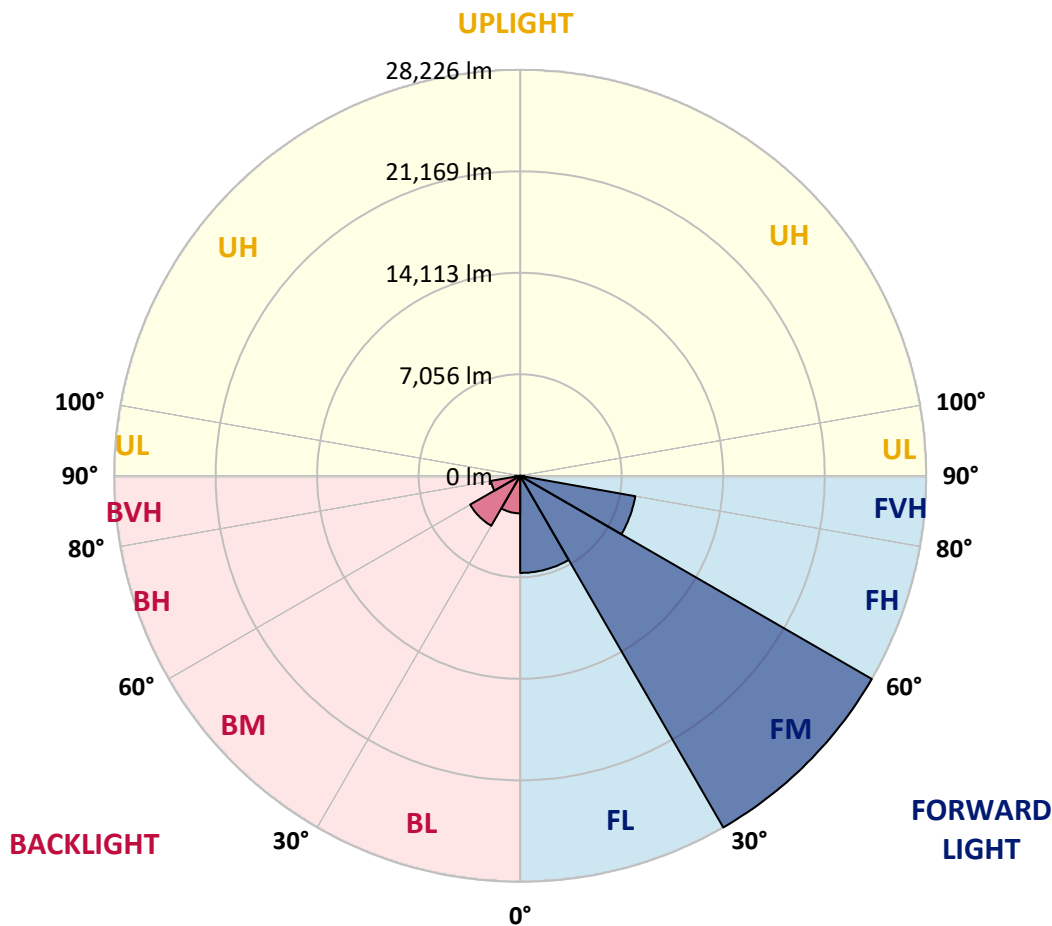
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6751.5	12.9			
FM (30°-60°)	28225.6	53.9			
FH (60°-80°)	8126.6	15.5			G4/12000
FVH (80°-90°)	273.6	0.5			G3/500
BL (0°-30°)	2612.4	5.0	B4/5000		
BM (30°-60°)	4010.2	7.7	B3/5000		
BH (60°-80°)	2064.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	347.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0
2.5°	13348.8	13471.3	13417.2	13229.9	13085.8	12882.3	12655.3	12586.9	12347.3	12078.9	11756.5
5°	15461.6	15400.4	15312.1	15020.3	14712.3	14353.9	13784.7	13694.6	13161.5	12554.5	11913.2
7.5°	16664.8	16659.4	16607.2	16436.1	16155.1	15686.8	15000.5	14894.2	14089.1	13112.8	12118.6
10°	16490.1	16477.5	16564.0	16742.3	16826.9	16729.7	16151.5	16045.2	15056.3	13730.6	12356.3
12.5°	15497.6	15504.8	15643.5	16018.2	16527.9	17140.3	17046.7	16994.4	16059.6	14429.5	12644.5
15°	14724.9	14741.1	14851.0	15177.0	15778.6	16890.0	17590.6	17608.7	17030.5	15200.4	12981.3
17.5°	14386.3	14420.5	14470.9	14699.7	15250.9	16391.0	17720.3	17817.6	17880.6	16000.2	13305.6
20°	14494.4	14526.8	14541.2	14687.1	15139.2	16088.4	17630.3	17805.0	18532.7	16753.1	13629.8
22.5°	14978.9	14998.7	15007.7	15045.5	15396.8	16174.9	17570.8	17754.6	19004.6	17428.5	13874.7
25°	15782.2	15767.8	15710.2	15661.5	15897.5	16517.1	17707.7	17882.4	19388.3	18041.0	14035.1
27.5°	16744.1	16726.1	16614.4	16481.1	16616.2	17050.3	18102.2	18240.9	19732.3	18613.7	14116.1
30°	17898.7	17851.8	17641.1	17482.6	17534.8	17850.0	18752.4	18878.5	20263.6	19264.0	14195.4
32.5°	19233.4	19182.9	18878.5	18615.5	18615.5	18878.5	19422.5	19527.0	20714.0	19998.9	14323.2
35°	20904.9	20841.8	20445.6	20004.3	19880.0	20013.3	20335.7	20409.5	21524.5	20924.7	14555.6
37.5°	22875.4	22790.7	22277.4	21686.6	21414.6	21407.4	21639.8	21791.1	22819.6	22140.5	14950.1
40°	24851.3	24791.9	24343.4	23878.7	23345.5	23174.4	23532.8	23579.7	24512.7	23649.9	15454.4
42.5°	26378.8	26368.0	26285.1	26346.3	25800.6	25454.7	25735.7	25773.6	26580.5	25283.6	15991.2
45°	27185.7	27203.7	27605.4	28495.2	28696.9	28444.8	28583.5	28594.3	28943.7	26931.7	16482.9
47.5°	26539.1	26632.7	27648.6	29639.0	31290.7	32128.2	31897.7	32031.0	31234.8	28347.5	16868.4
50°	24019.2	24134.5	25863.6	29129.2	32501.1	35692.8	35572.2	35541.5	33082.9	29385.0	17077.3
52.5°	20897.7	20987.7	22414.3	26479.6	31613.1	37663.4	38771.1	38612.6	34725.6	30161.3	17116.9
55°	16144.3	16284.8	17651.9	21191.3	28021.5	36910.5	41123.5	40981.2	36222.4	30568.4	17070.1
57°	11477.3	11625.0	12983.1	16173.1	23572.5	34304.1	41357.7	41509.0	37031.1	30636.8	17122.3
57.5°	10241.7	10393.0	11738.5	14836.6	22185.5	33362.1	41155.9	41408.1	37177.0	30626.0	17151.2
60°	5156.9	5214.5	6071.9	8282.0	14024.2	26971.4	38524.3	39174.6	37308.5	30096.5	17275.4
62.5°	3206.2	3164.7	3137.7	3815.0	6823.0	17886.0	33093.7	34345.5	34792.2	28814.0	16974.6
65°	2818.9	2741.4	2444.2	2390.2	3013.4	8687.3	24921.6	26479.6	29415.6	26793.0	16257.7
67.5°	2647.8	2572.1	2237.1	2035.4	2037.2	3443.9	15472.4	17226.8	22915.0	23376.1	14566.4
70°	2471.3	2402.8	2089.4	1851.6	1734.6	1907.5	7118.4	8449.5	14937.5	18374.2	12174.4
72.5°	2244.3	2197.5	1900.3	1655.3	1531.0	1428.4	2725.2	3218.8	8647.6	12340.1	8454.9
75°	2006.6	1963.3	1709.4	1475.2	1323.9	1124.0	1534.6	1653.5	4393.2	6313.3	4162.6
77.5°	1745.4	1720.2	1520.2	1304.1	1183.4	931.2	1086.1	1143.8	1884.1	2707.2	2087.6
80°	1388.7	1437.4	1329.3	1161.8	1050.1	745.7	769.1	806.9	1096.9	1322.1	1185.2
82.5°	904.2	988.9	1041.1	943.8	864.6	587.2	553.0	569.2	715.1	806.9	515.1
85°	376.5	423.3	684.5	617.8	574.6	428.7	371.0	378.3	443.1	459.3	210.7
87.5°	167.5	178.3	300.8	282.8	243.2	147.7	158.5	172.9	236.0	223.4	81.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0	11625.0
2.5°	11635.8	11484.5	11225.2	10938.8	10704.6	10517.3	10328.2	10198.5	10047.2	9966.1	9924.7
5°	11644.8	11347.6	10801.9	10241.7	9741.0	9283.5	8847.6	8512.5	8199.1	8029.8	7983.0
7.5°	11682.7	11236.0	10353.4	9431.2	8541.4	7729.0	7102.2	6709.5	6426.7	6300.6	6264.6
10°	11713.3	11104.5	9798.6	8433.3	7222.9	6399.7	5913.4	5693.6	5596.4	5580.2	5563.9
12.5°	11785.3	10969.4	9215.0	7392.2	6198.0	5628.8	5459.5	5445.1	5472.1	5511.7	5511.7
15°	11898.8	10836.1	8548.6	6498.8	5545.9	5346.0	5380.2	5459.5	5533.3	5594.6	5603.6
17.5°	11981.7	10672.2	7831.7	5783.7	5198.3	5252.3	5374.8	5486.5	5562.1	5621.6	5627.0
20°	12041.1	10418.2	7066.2	5237.9	4998.4	5165.9	5319.0	5418.0	5470.3	5529.7	5538.7
22.5°	12010.5	10077.8	6387.1	4847.1	4836.3	5039.8	5185.7	5304.6	5264.9	5207.3	5245.1
25°	11862.8	9609.5	5688.2	4555.3	4665.1	4870.5	5050.6	4971.3	4838.1	4812.8	4827.3
27.5°	11599.8	9011.5	5041.6	4285.1	4467.0	4713.8	4703.0	4623.7	4576.9	4544.5	4564.3
30°	11317.0	8363.0	4476.0	4049.1	4247.3	4450.8	4409.4	4407.6	4360.7	4308.5	4333.7
32.5°	11037.8	7711.0	4027.5	3854.6	4081.5	4108.6	4198.6	4225.6	4133.8	4023.9	4016.7
35°	10794.7	7095.0	3687.1	3678.1	3881.6	3885.2	4016.7	3978.9	3750.1	3636.6	3636.6
37.5°	10612.7	6480.8	3427.7	3519.6	3618.6	3712.3	3778.9	3622.2	3584.4	3521.4	3519.6
40°	10533.5	5940.4	3265.6	3398.9	3433.1	3552.0	3380.9	3442.1	3460.1	3427.7	3427.7
42.5°	10450.6	5470.3	3125.1	3307.0	3301.6	3285.4	3199.0	3278.2	3350.3	3352.1	3346.7
45°	10367.8	5065.0	3000.8	3110.7	3186.3	3011.6	3027.8	3112.5	3213.4	3249.4	3249.4
47.5°	10275.9	4744.4	2887.3	2903.6	3020.6	2903.6	2890.9	2955.8	3074.7	3132.3	3144.9
50°	10074.2	4456.2	2757.7	2721.6	2754.1	2793.7	2804.5	2835.1	2966.6	3058.5	3080.1
52.5°	9795.0	4198.6	2591.9	2554.1	2554.1	2703.6	2754.1	2763.1	2874.7	2984.6	3006.2
55°	9562.6	4034.7	2420.8	2413.6	2406.4	2608.2	2694.6	2709.0	2786.5	2872.9	2883.7
57°	9578.9	4022.1	2289.3	2296.5	2294.7	2510.9	2638.8	2669.4	2709.0	2782.9	2795.5
57.5°	9587.9	4031.1	2260.5	2264.1	2262.3	2483.9	2622.6	2656.8	2687.4	2764.9	2777.5
60°	9722.9	4054.5	2143.4	2103.8	2112.8	2339.8	2530.7	2573.9	2593.7	2696.4	2712.6
62.5°	9523.0	3950.1	2049.8	1954.3	1954.3	2188.5	2402.8	2471.3	2501.9	2640.6	2667.6
65°	8943.0	3656.5	1939.9	1785.0	1803.0	2037.2	2249.7	2361.4	2408.2	2581.1	2610.0
67.5°	8047.8	3316.0	1822.8	1633.7	1651.7	1878.7	2091.2	2211.9	2285.7	2516.3	2539.7
70°	6882.4	2900.0	1664.3	1473.4	1495.0	1705.7	1903.9	2040.8	2150.6	2455.1	2462.3
72.5°	5074.0	2377.6	1442.8	1296.9	1320.3	1504.0	1714.8	1873.3	2021.0	2302.0	2298.3
75°	3017.0	1858.9	1197.8	1118.6	1134.8	1305.9	1543.6	1736.4	1957.9	2242.5	2276.7
77.5°	1830.0	1399.5	976.3	936.6	956.4	1131.2	1421.2	1626.5	1930.9	2114.6	2103.8
80°	1105.9	999.7	779.9	754.7	774.5	967.3	1314.9	1543.6	1687.7	1806.6	1806.6
82.5°	578.2	610.6	572.8	553.0	580.0	785.3	1196.0	1347.3	1491.4	1280.7	1196.0
85°	236.0	318.8	347.6	345.8	362.0	544.0	1032.1	1152.8	961.8	913.2	934.8
87.5°	79.3	135.1	169.3	145.9	153.1	342.2	715.1	556.6	661.0	461.1	437.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)