

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: P649132

Luminaire Tested: **GLAN-SA9C-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37227.8 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

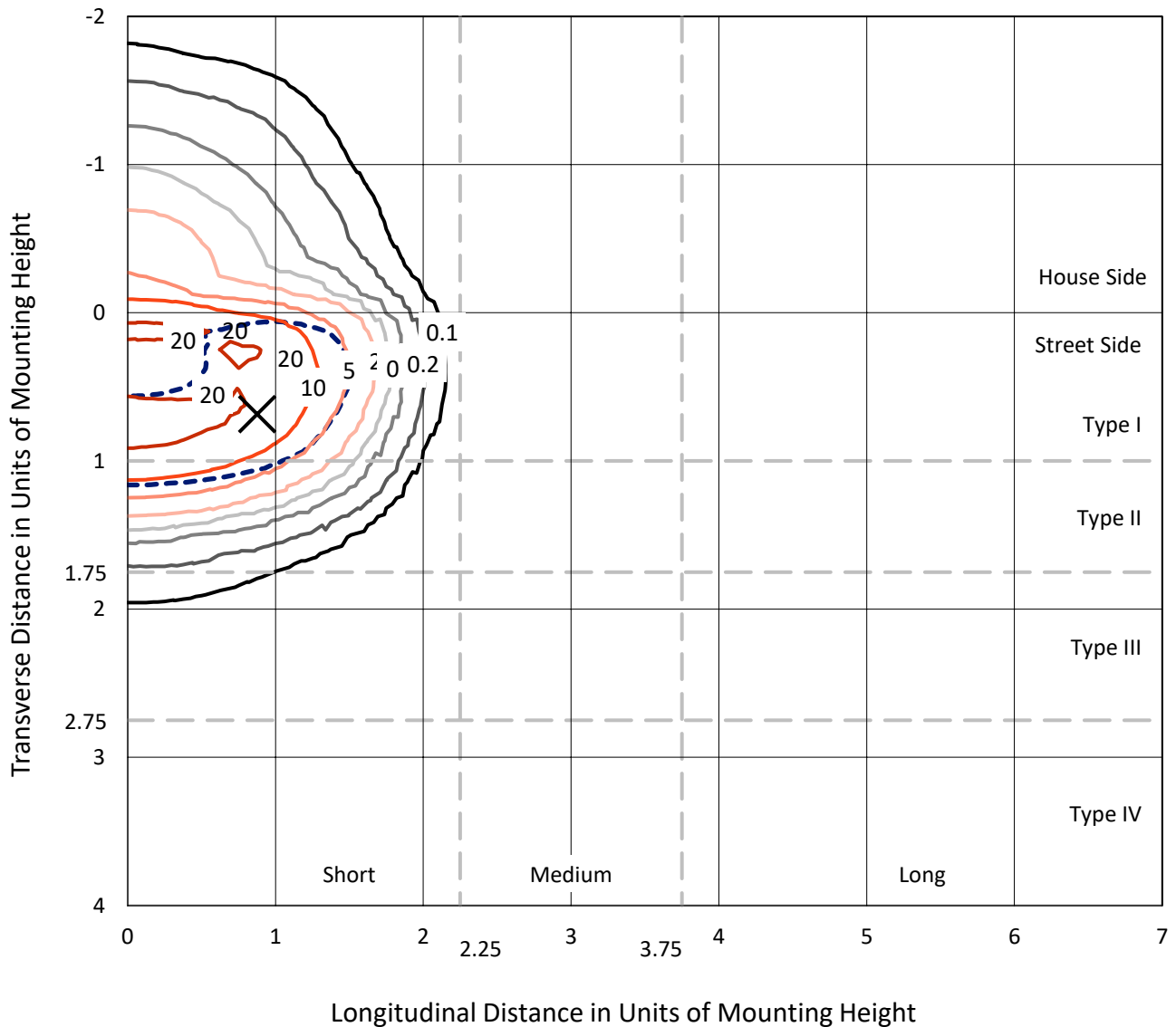
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

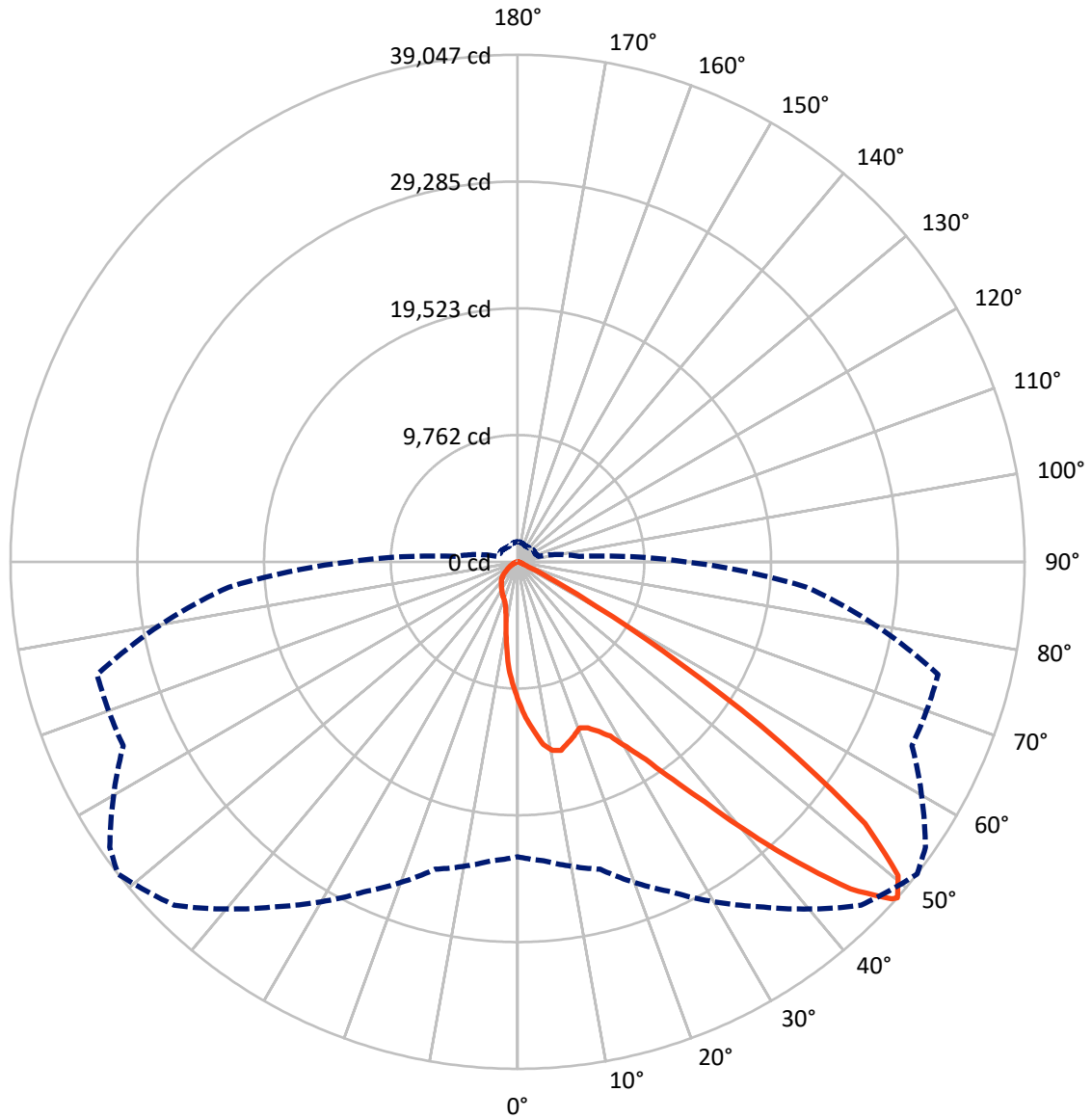
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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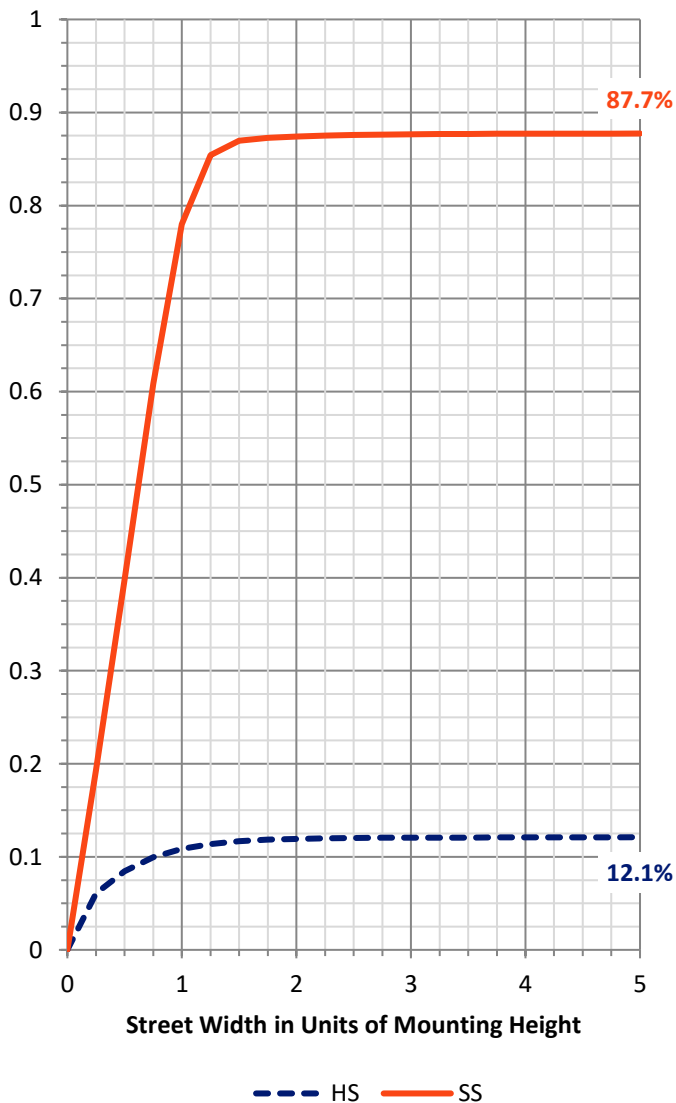
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4532.8	0.0	4532.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	32695.0	0.0	32695.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	37227.8	0.0	37227.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.0	2.6
10°-20°	2571.5	6.9
20°-30°	4390.7	11.8
30°-40°	8085.4	21.7
40°-50°	12556.7	33.7
50°-60°	7557.0	20.3
60°-70°	874.0	2.3
70°-80°	169.2	0.5
80°-90°	39.1	0.1
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°	37227.8	100.0
0°-180°	37227.8	100.0

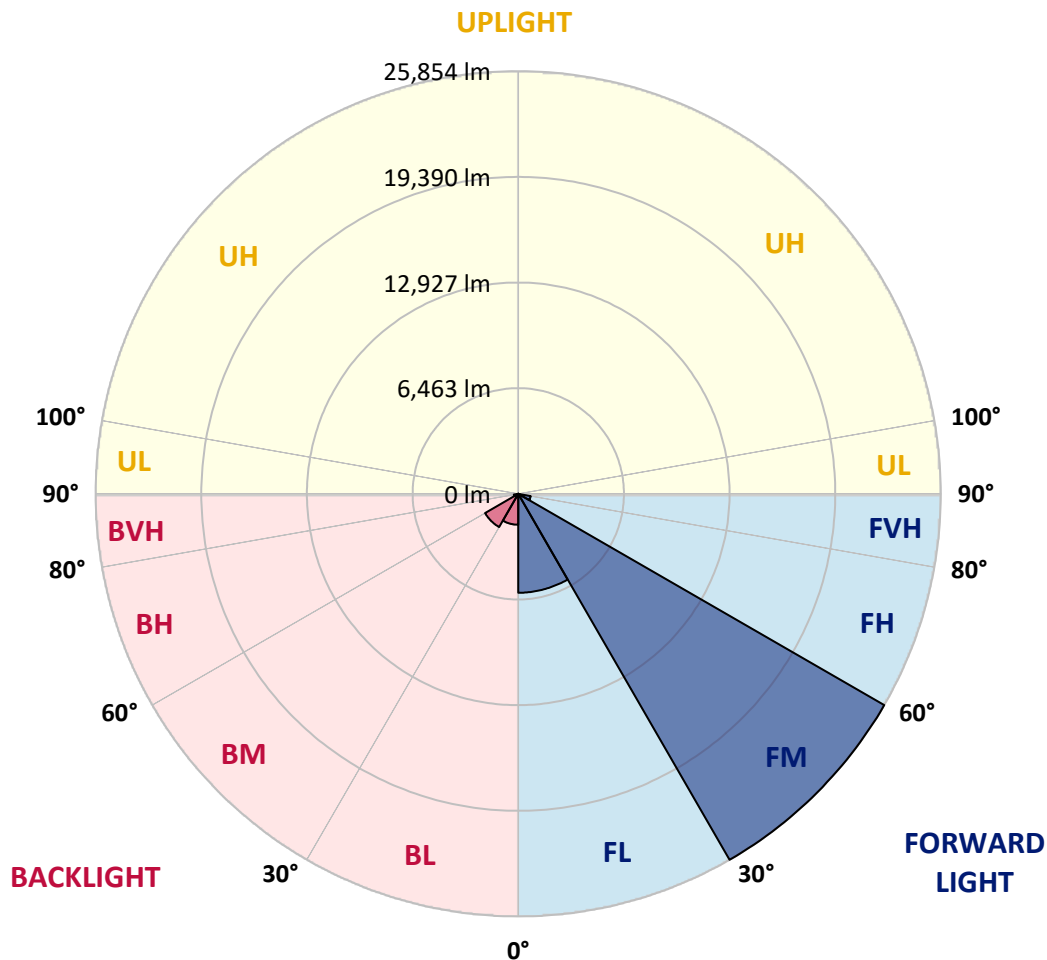


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6052.7	16.3			
FM (30°-60°)	25853.9	69.4			
FH (60°-80°)	769.7	2.1			G1/1800
FVH (80°-90°)	18.6	0.1			G1/100
BL (0°-30°)	1893.5	5.1	B3/2500		
BM (30°-60°)	2345.2	6.3	B2/2500		
BH (60°-80°)	273.6	0.7	B1/500		G1/500
BVH (80°-90°)	20.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7
2.5°	13030.1	12731.6	12758.8	12563.3	12449.4	12264.8	12015.2	11966.4	11695.0	11326.0	10951.6
5°	14202.3	14131.7	14224.0	13941.8	13952.7	13648.7	13062.6	13073.5	12449.4	11847.0	11266.3
7.5°	14278.2	14115.5	14207.7	14457.3	14603.9	14549.6	14218.6	13930.9	13339.4	12454.8	11608.2
10°	12785.8	13095.2	13192.8	13605.3	14191.4	14810.1	14772.1	14788.4	14294.5	13138.6	11901.3
12.5°	11890.4	11684.2	12015.2	12264.8	13149.5	14348.8	14896.9	15016.3	15054.3	13800.7	12194.3
15°	11483.4	11483.4	11537.7	11608.2	12248.5	13355.7	14473.6	14820.9	15640.4	14669.0	12655.6
17.5°	11738.4	11727.6	11803.6	11657.1	11895.8	12747.9	14082.9	14479.1	16297.0	15521.0	13019.2
20°	12514.5	12552.5	12503.6	12080.4	12096.6	12737.0	13648.7	14272.8	16742.1	16259.1	13502.2
22.5°	13594.4	13616.1	13339.4	12878.1	12742.5	13057.2	13898.4	14376.0	17100.3	17143.7	13648.7
25°	14842.6	14755.8	14701.5	14050.3	13637.9	13909.2	14462.8	14739.6	17322.8	17903.5	14066.6
27.5°	16573.8	16400.2	16069.1	15488.4	15184.6	14799.2	15195.4	15651.3	17957.7	18967.2	14522.5
30°	19129.9	18978.0	18332.1	17583.3	16785.5	16405.7	16530.5	16780.1	19102.8	20199.1	15124.8
32.5°	22977.6	22657.4	21724.0	20296.7	19211.4	18164.0	18131.4	18397.3	20128.5	21903.1	15841.2
35°	27216.1	27118.3	25745.4	24274.6	22174.5	20557.2	20584.4	20725.5	22093.0	24139.0	16780.1
37.5°	30032.7	30569.9	29696.1	28116.9	26353.2	24041.3	23455.2	23504.0	24790.2	26787.4	18473.2
40°	32208.9	31753.0	31856.1	31487.1	30282.3	28708.5	27411.4	27156.4	27910.7	29717.9	20155.6
42.5°	31259.2	31280.8	31915.8	32789.5	33088.0	32974.0	31649.9	31166.8	30580.8	32116.5	21756.6
45°	28578.2	29137.2	29962.1	32273.9	34303.6	36208.5	35948.0	35144.8	32425.9	34016.0	22679.1
47.5°	24301.8	24280.1	25631.4	28637.9	33147.7	37608.7	38791.7	38227.3	33733.8	33804.4	22489.2
48°	22722.6	23113.3	24508.1	28046.4	32415.0	37402.4	39046.8	38335.8	33511.3	33522.2	22326.4
50°	16796.4	16725.8	18462.4	22803.9	28952.7	35144.8	37972.2	38525.8	33505.9	32094.9	21186.7
52.5°	8873.0	9176.9	10441.4	14338.0	20470.4	28762.7	33495.0	34357.9	32322.8	29761.3	19547.8
55°	3771.7	3408.1	4379.6	6474.3	11516.0	19216.8	24573.1	26494.3	27330.0	26336.9	17100.3
57.5°	1345.9	1470.7	1693.2	2436.7	4840.8	10517.4	14652.7	16145.1	18934.6	19325.3	11651.6
60°	862.9	879.2	949.7	1118.0	1818.0	4053.9	6951.9	8140.4	9404.8	9708.8	5437.8
62.5°	667.5	672.9	705.5	732.7	862.9	1573.8	2610.4	3093.3	3212.7	2762.3	1427.3
65°	559.0	564.4	575.3	575.3	613.2	738.1	911.7	1004.0	976.9	966.0	808.6
67.5°	428.7	439.6	461.3	461.3	483.0	450.5	504.7	537.3	607.8	738.1	689.2
70°	336.5	341.9	358.1	369.0	369.0	325.6	363.6	396.2	445.0	548.1	542.7
72.5°	260.5	271.3	282.2	282.2	265.9	222.5	260.5	287.6	320.2	379.9	369.0
75°	200.8	200.8	206.2	168.3	130.2	113.9	157.4	190.0	238.8	249.6	206.2
77.5°	54.3	59.7	54.3	48.9	54.3	81.4	103.1	119.4	152.0	152.0	135.7
80°	0.0	5.4	16.3	32.6	54.3	76.0	92.2	103.1	119.4	130.2	124.8
82.5°	0.0	5.4	16.3	32.6	48.9	59.7	81.4	86.8	97.7	113.9	113.9
85°	0.0	5.4	10.9	21.7	32.6	38.0	38.0	32.6	32.6	27.2	21.7
87.5°	0.0	0.0	5.4	10.9	10.9	16.3	16.3	16.3	16.3	16.3	16.3
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°	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7	10750.7
2.5°	10805.0	10636.8	10381.7	9980.1	9594.8	9345.2	9106.4	8840.5	8694.0	8683.1	8601.7
5°	10935.3	10555.4	9947.5	9258.3	8520.3	7885.4	7244.9	6827.1	6452.6	6246.4	6208.4
7.5°	11005.8	10511.9	9529.7	8373.8	7114.7	6078.2	5361.8	4835.4	4629.2	4477.2	4471.8
10°	11152.3	10436.0	8905.6	7201.6	5644.0	4596.6	4102.8	3863.9	3750.0	3706.6	3641.5
12.5°	11260.9	10294.9	8265.2	5996.8	4460.9	3809.7	3592.6	3538.4	3543.8	3565.5	3538.4
15°	11412.9	10170.1	7402.3	4922.3	3744.6	3429.9	3429.9	3440.7	3516.7	3527.5	3522.1
17.5°	11402.0	9925.9	6512.3	4053.9	3310.4	3267.0	3283.3	3386.4	3435.3	3451.5	3413.6
20°	11532.3	9697.9	5595.2	3462.3	3066.2	3131.4	3239.9	3267.0	3326.7	3337.5	3294.2
22.5°	11494.2	9128.1	4743.1	2995.7	2881.7	3006.5	3115.1	3147.6	3131.4	3098.8	3093.3
25°	11423.7	8639.7	3961.7	2686.3	2746.1	2881.7	2984.8	2925.1	2892.6	2898.0	2903.4
27.5°	11298.8	8021.0	3315.8	2469.3	2561.5	2762.3	2756.9	2735.2	2767.7	2740.6	2767.7
30°	11277.2	7402.3	2784.0	2273.9	2425.8	2572.4	2583.2	2621.2	2659.2	2610.4	2659.2
32.5°	11309.7	6723.9	2404.1	2154.5	2344.5	2349.9	2469.3	2507.2	2480.1	2371.6	2382.4
35°	11559.4	6203.0	2127.3	2089.4	2214.2	2219.6	2333.6	2284.7	2165.3	2100.2	2138.2
37.5°	12085.8	5768.8	1997.1	2029.7	2040.5	2111.0	2116.5	2018.8	2029.7	2024.2	2046.0
40°	12758.8	5437.8	1904.9	1975.4	1964.5	2013.4	1818.0	1872.3	1921.2	1937.4	1948.3
42.5°	13220.0	5199.0	1845.1	1888.6	1866.8	1780.1	1671.5	1725.7	1763.8	1823.5	1834.3
45°	13426.3	5009.1	1774.6	1736.6	1736.6	1579.2	1535.9	1546.7	1633.5	1698.6	1687.8
47.5°	13089.7	4824.5	1649.8	1535.9	1573.8	1443.5	1394.8	1394.8	1487.0	1568.3	1552.1
48°	12959.5	4748.6	1655.2	1492.4	1519.6	1421.8	1373.0	1362.2	1465.3	1541.3	1541.3
50°	12313.7	4466.4	1514.1	1373.0	1318.7	1307.9	1275.4	1286.2	1351.3	1421.8	1421.8
52.5°	11054.6	3858.5	1280.8	1177.6	1080.0	1145.1	1161.3	1139.7	1172.2	1237.4	1231.9
55°	9225.8	2963.1	1025.7	976.9	900.8	971.4	1004.0	976.9	944.3	993.2	993.2
57.5°	5909.9	1595.5	819.5	830.3	754.3	824.9	852.1	786.9	727.2	765.2	759.7
60°	2664.6	955.1	672.9	656.6	607.8	689.2	732.7	656.6	575.3	602.4	629.5
62.5°	998.6	678.4	510.1	499.2	488.4	564.4	586.1	526.4	445.0	461.3	466.7
65°	732.7	597.0	407.0	369.0	390.7	445.0	434.2	374.4	320.2	320.2	331.1
67.5°	624.1	521.0	331.1	287.6	287.6	293.1	271.3	238.8	222.5	233.3	244.2
70°	488.4	412.5	260.5	222.5	200.8	179.1	157.4	152.0	135.7	152.0	146.5
72.5°	314.8	276.8	200.8	168.3	152.0	124.8	103.1	97.7	81.4	76.0	76.0
75°	168.3	168.3	157.4	135.7	119.4	97.7	81.4	65.1	43.4	32.6	32.6
77.5°	119.4	130.2	141.1	130.2	108.5	81.4	65.1	43.4	21.7	10.9	10.9
80°	113.9	130.2	141.1	124.8	108.5	81.4	59.7	32.6	16.3	5.4	5.4
82.5°	103.1	119.4	130.2	113.9	97.7	70.5	54.3	32.6	16.3	5.4	5.4
85°	21.7	27.2	32.6	32.6	38.0	48.9	38.0	27.2	10.9	5.4	5.4
87.5°	16.3	16.3	16.3	16.3	16.3	16.3	10.9	10.9	5.4	5.4	5.4
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)