

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: P317422

Luminaire Tested: **GAN-SA8D-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58998 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

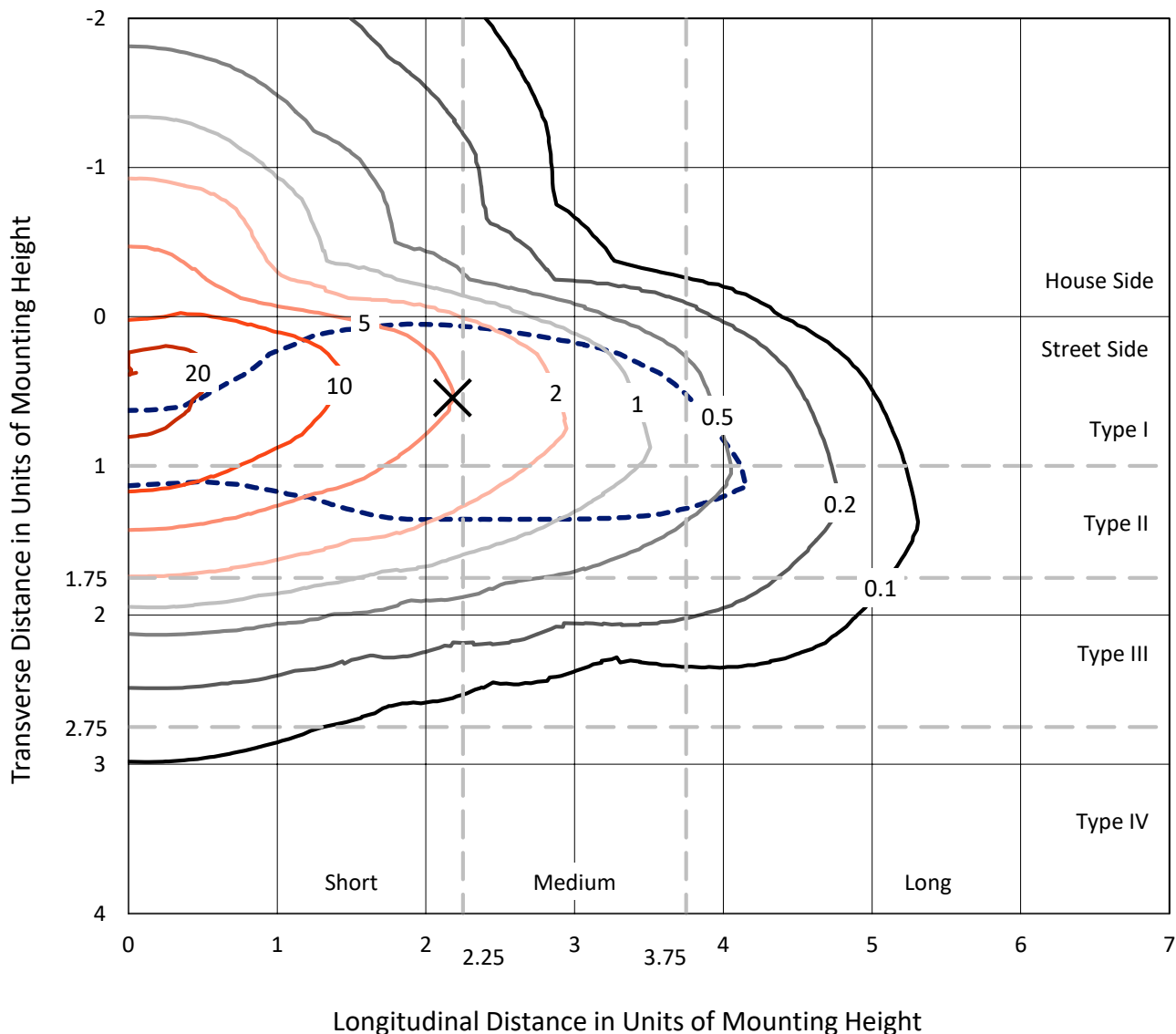
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

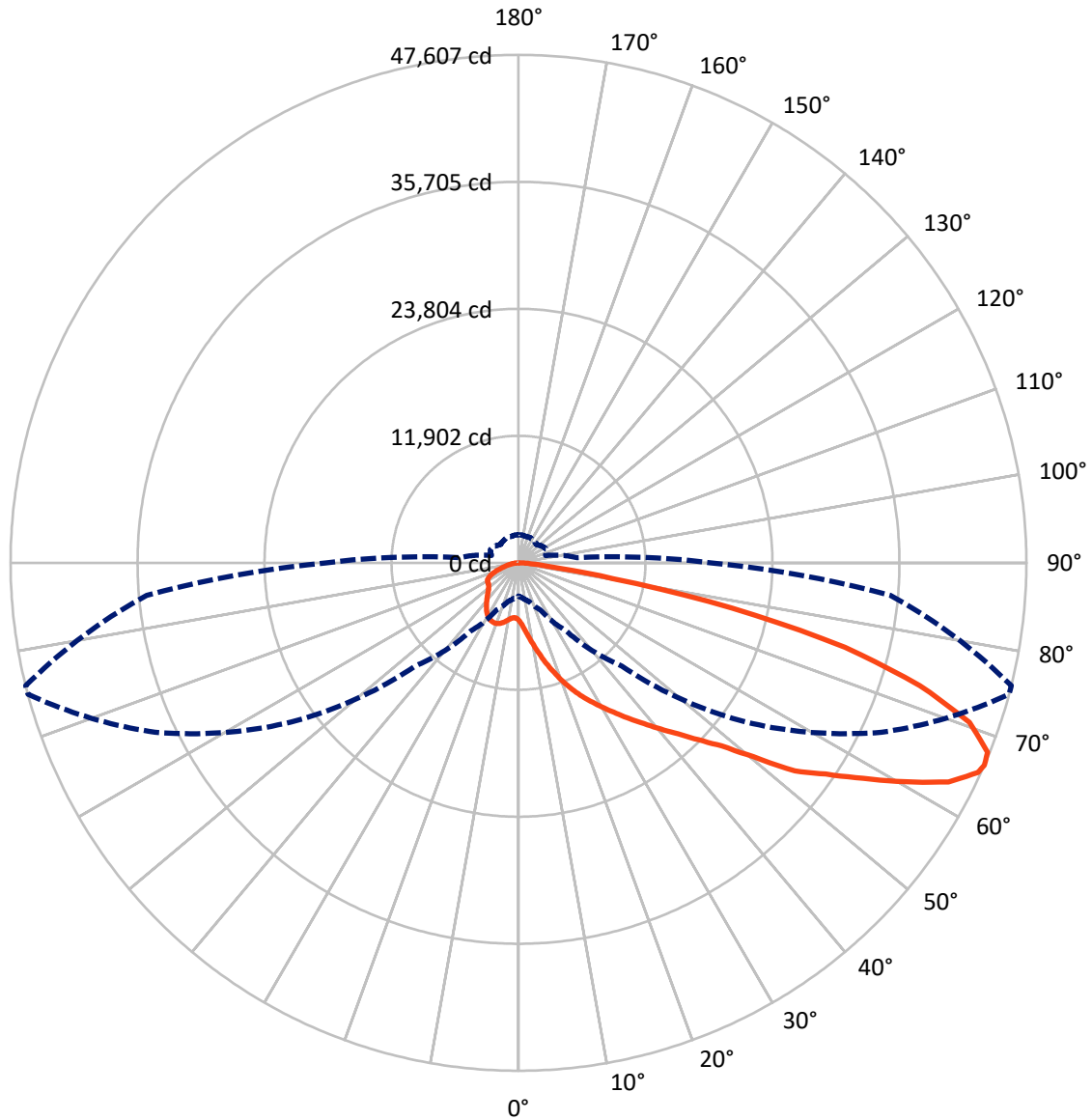
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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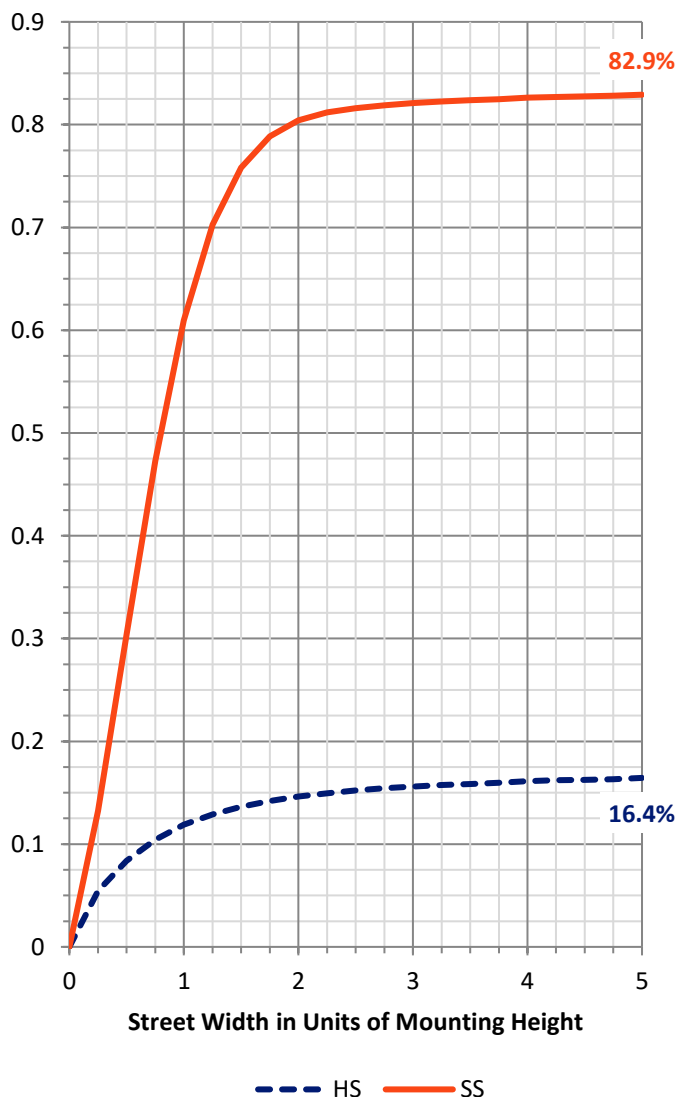
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9927.3	0.0	9927.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	49070.7	0.0	49070.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	58998.0	0.0	58998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.5	1.1
10°-20°	2572.9	4.4
20°-30°	4999.7	8.5
30°-40°	8160.7	13.8
40°-50°	11149.4	18.9
50°-60°	12986.8	22.0
60°-70°	11642.9	19.7
70°-80°	5883.9	10.0
80°-90°	950.2	1.6
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°	58998.0	100.0
0°-180°	58998.0	100.0

Coefficient of Utilization

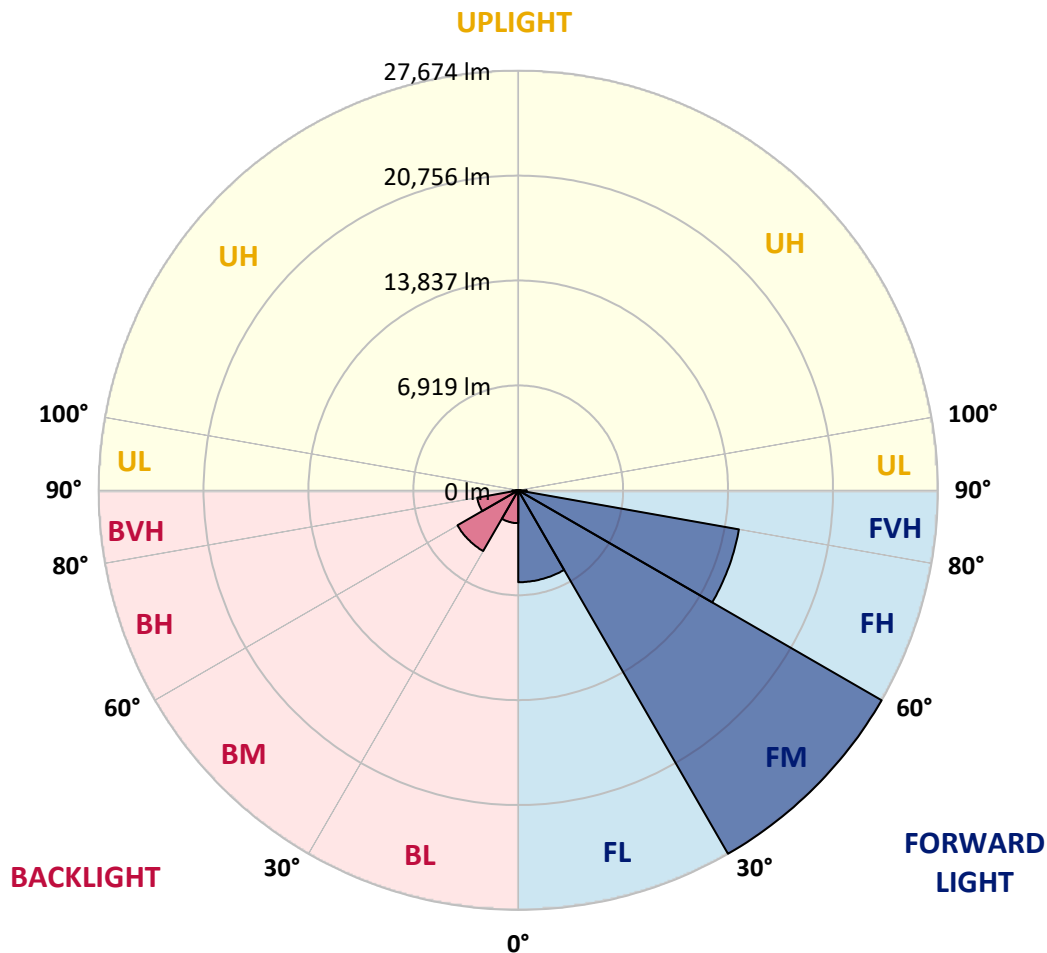


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6058.9	10.3			
FM (30°-60°)	27674.1	46.9			
FH (60°-80°)	14776.4	25.0			G5
FVH (80°-90°)	561.1	1.0			G4/750
BL (0°-30°)	2165.2	3.7	B3/2500		
BM (30°-60°)	4622.8	7.8	B3/5000		
BH (60°-80°)	2750.3	4.7	B4/5000		G4/5000
BVH (80°-90°)	389.0	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-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8
2.5°	7152.4	7044.3	7034.2	6876.0	6840.0	6537.5	6315.2	6082.9	5818.5	5766.4	5558.1
5°	9187.4	9177.4	9039.2	8780.8	8578.5	8061.7	7551.0	7010.2	6417.3	6321.2	5852.5
7.5°	11018.0	11002.0	10895.9	10617.5	10325.0	9690.1	8961.1	8131.8	7170.4	7028.2	6251.1
10°	12408.1	12402.1	12366.0	12161.7	11913.4	11304.5	10499.3	9367.6	8045.7	7851.4	6749.8
12.5°	13481.6	13493.7	13517.7	13445.6	13327.4	12808.7	11983.5	10677.6	8979.1	8786.8	7304.6
15°	14208.7	14244.7	14368.9	14471.1	14533.2	14214.7	13415.5	12017.5	10024.6	9794.3	7919.5
17.5°	14575.2	14615.3	14829.6	15138.1	15422.5	15390.4	14755.5	13295.4	11028.1	10805.7	8580.5
20°	14891.7	14921.7	15162.1	15532.6	16035.4	16257.7	15901.2	14525.2	12127.7	11863.3	9281.5
22.5°	15809.0	15847.1	15919.2	16129.5	16574.1	16982.7	16810.5	15688.9	13135.1	12888.8	9946.5
25°	17579.6	17625.7	17469.4	17291.2	17375.3	17659.7	17691.8	16750.4	14156.6	13878.2	10661.5
27.5°	19712.7	19778.8	19512.4	19053.8	18653.2	18543.0	18505.0	17619.7	15132.0	14809.6	11368.6
30°	21801.8	21915.9	21569.4	20974.6	20239.5	19722.7	19340.2	18470.9	16093.4	15785.0	12035.5
32.5°	23842.7	23796.7	23293.9	22713.1	21851.8	21204.9	20279.5	19384.2	17175.0	16820.5	12698.5
35°	25240.8	25256.8	24790.1	24101.1	23279.9	22783.2	21537.4	20369.7	18278.6	17952.1	13451.6
37.5°	26430.5	26356.4	25827.6	25184.7	24477.7	24265.3	23009.5	21455.3	19474.4	19117.8	14252.8
40°	26827.1	26741.0	26394.4	25931.8	25364.9	25346.9	24633.9	22685.0	20826.3	20473.8	15156.1
42.5°	26586.7	26476.6	26334.4	26208.2	26033.9	26114.0	26160.1	24127.1	22312.5	21917.9	16201.6
45°	25699.4	25533.2	25633.3	25907.7	26286.3	26738.9	27538.1	25723.5	23976.9	23646.4	17429.4
47.5°	24335.4	24185.2	24497.7	25084.5	26114.0	27259.7	28842.0	27486.0	25963.8	25635.3	19177.9
50°	22416.7	22460.7	22907.4	23974.9	25531.2	27500.1	30448.4	29819.4	28852.0	28545.6	21563.4
52.5°	19268.1	19276.1	20533.9	22286.5	24497.7	27375.9	31339.6	32801.8	32795.8	32425.2	23834.7
55°	16343.8	16522.1	17517.5	19846.9	22823.2	26879.2	31962.6	34251.9	35385.5	34950.9	25951.8
57.5°	13487.6	13591.8	14535.2	16874.6	20433.8	25555.2	32601.5	35992.4	38369.9	38095.5	28583.6
60°	10238.9	10399.1	11374.6	13535.7	17377.3	23205.8	32661.6	37809.1	41937.1	41660.7	31521.9
62.5°	6645.7	6922.1	7835.4	9860.4	13679.9	19826.9	31267.5	38996.8	45318.0	45219.9	34129.7
65°	3819.6	4027.9	4662.8	6225.1	9437.7	15584.7	27952.7	38540.1	47399.0	47343.0	35105.1
66°	3120.5	3250.7	3737.4	4865.1	7787.3	13685.9	26025.9	37576.7	47605.3	47607.3	34993.0
67.5°	2495.6	2553.7	2772.0	3483.1	5746.4	10847.8	22582.9	35451.6	47349.0	47419.1	34269.9
70°	2065.0	2095.1	2163.2	2335.4	3136.6	6541.5	16029.3	29929.6	44775.2	44829.3	31447.8
72.5°	1852.7	1870.7	1896.8	1920.8	2213.2	3655.3	9790.3	23942.9	39257.2	39327.3	27147.5
75°	1678.4	1688.5	1684.5	1686.5	1856.7	2329.4	5059.4	17876.0	31742.2	31602.0	20796.3
77.5°	1474.1	1484.2	1464.1	1468.1	1642.4	1790.6	2517.7	12514.2	21421.2	20431.8	11717.1
80°	1245.8	1253.8	1245.8	1259.8	1430.1	1352.0	1464.1	7040.3	9471.8	8959.0	4166.1
82.5°	941.4	975.4	999.5	1055.5	1177.7	961.4	979.4	2742.0	2884.2	2746.0	1277.9
85°	412.6	502.7	753.1	807.2	885.3	576.8	642.9	1117.6	1173.7	1137.7	464.7
87.5°	108.2	118.2	372.5	468.7	490.7	260.4	334.5	508.7	536.8	508.7	154.2
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°	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8	5387.8
2.5°	5447.9	5349.8	5173.5	5017.3	4899.1	4819.0	4738.9	4698.8	4674.8	4650.8	4654.8
5°	5622.2	5423.9	5121.5	4907.1	4787.0	4710.9	4670.8	4654.8	4644.8	4620.7	4620.7
7.5°	5884.6	5604.2	5187.6	4967.2	4873.1	4815.0	4791.0	4783.0	4770.9	4742.9	4746.9
10°	6215.1	5822.5	5325.8	5111.4	5025.3	4961.2	4927.2	4915.2	4893.1	4861.1	4865.1
12.5°	6603.6	6092.9	5508.0	5283.7	5179.5	5093.4	5037.3	5003.3	4965.2	4923.2	4925.2
15°	7028.2	6387.3	5704.3	5437.9	5295.7	5175.5	5085.4	5027.3	4967.2	4915.2	4913.2
17.5°	7458.9	6671.7	5854.5	5522.0	5329.8	5171.5	5049.4	4959.2	4885.1	4821.0	4815.0
20°	7923.5	6928.1	5938.7	5514.0	5265.7	5077.4	4915.2	4803.0	4720.9	4656.8	4646.8
22.5°	8396.2	7168.4	5952.7	5431.9	5123.5	4893.1	4722.9	4598.7	4514.6	4448.5	4424.4
25°	8828.9	7354.7	5894.6	5273.7	4925.2	4676.8	4510.6	4384.4	4316.3	4238.2	4214.1
27.5°	9223.4	7484.9	5778.4	5071.4	4702.9	4458.5	4302.3	4194.1	4120.0	4059.9	4039.9
30°	9578.0	7555.0	5588.1	4831.0	4474.5	4252.2	4120.0	4045.9	3981.8	3905.7	3891.7
32.5°	9914.4	7555.0	5343.8	4568.7	4248.2	4069.9	3991.8	3945.7	3873.6	3799.5	3779.5
35°	10250.9	7508.9	5055.4	4294.3	4039.9	3939.7	3935.7	3881.7	3771.5	3671.3	3645.3
37.5°	10605.4	7414.8	4730.9	4037.9	3869.6	3881.7	3915.7	3795.5	3639.3	3497.1	3459.0
40°	11006.0	7284.6	4394.4	3815.6	3727.4	3855.6	3861.6	3671.3	3366.9	3236.7	3202.7
42.5°	11476.7	7154.4	4081.9	3619.3	3615.3	3777.5	3759.5	3403.0	3220.7	3154.6	3136.6
45°	12095.6	7080.3	3785.5	3433.0	3527.1	3651.3	3585.2	3254.7	3178.6	3140.6	3124.6
47.5°	13071.0	7118.4	3513.1	3284.8	3439.0	3525.1	3260.7	3194.7	3140.6	3094.5	3078.5
50°	14292.8	7096.3	3292.8	3182.6	3338.9	3392.9	3114.5	3116.5	3088.5	3036.4	3012.4
52.5°	15212.2	6924.1	3150.6	3124.6	3250.7	3158.6	3022.4	3040.4	3026.4	2950.3	2924.3
55°	16099.5	6775.9	3078.5	3102.5	3186.6	2866.2	2914.2	2958.3	2944.3	2870.2	2858.2
57.5°	17203.1	6747.8	3034.4	3108.5	3132.6	2720.0	2810.1	2868.2	2858.2	2826.1	2820.1
60°	18555.0	6755.8	2994.4	3118.5	3072.5	2611.8	2712.0	2786.1	2792.1	2786.1	2782.1
62.5°	19298.1	6537.5	2894.2	3090.5	2966.3	2517.7	2609.8	2718.0	2720.0	2732.0	2730.0
65°	18667.2	5884.6	2707.9	2992.4	2788.1	2439.6	2521.7	2639.8	2609.8	2663.9	2663.9
66°	18054.3	5508.0	2615.8	2928.3	2712.0	2409.5	2493.6	2599.8	2561.7	2635.8	2635.8
67.5°	16802.5	4873.1	2449.6	2792.1	2603.8	2367.4	2461.6	2533.7	2481.6	2591.8	2583.8
70°	14515.1	3769.5	2115.1	2483.6	2425.5	2305.4	2417.5	2401.5	2325.4	2493.6	2461.6
72.5°	12237.8	2864.2	1698.5	2079.0	2155.1	2227.2	2355.4	2233.3	2137.1	2255.3	2185.2
75°	9495.8	2153.1	1342.0	1616.4	1820.7	2105.1	2281.3	2039.0	1900.8	1888.8	1850.7
77.5°	5133.5	1478.2	1063.5	1233.8	1446.1	1952.8	2231.3	1830.7	1622.4	1574.3	1544.2
80°	2033.0	961.4	773.1	935.4	1011.5	1732.5	2111.1	1588.3	1337.9	1289.9	1243.8
82.5°	839.2	568.8	498.7	626.9	659.0	1482.2	1894.8	1301.9	1033.5	1430.1	1518.2
85°	360.5	312.5	296.4	324.5	372.5	1039.5	1508.2	993.4	1115.6	995.4	791.2
87.5°	108.2	132.2	126.2	124.2	136.2	248.4	803.2	552.8	819.2	310.5	232.3
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)