

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: McGRAW-EDISON

Report Number: P529618

Luminaire Tested: **GALN-SA4D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23912 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

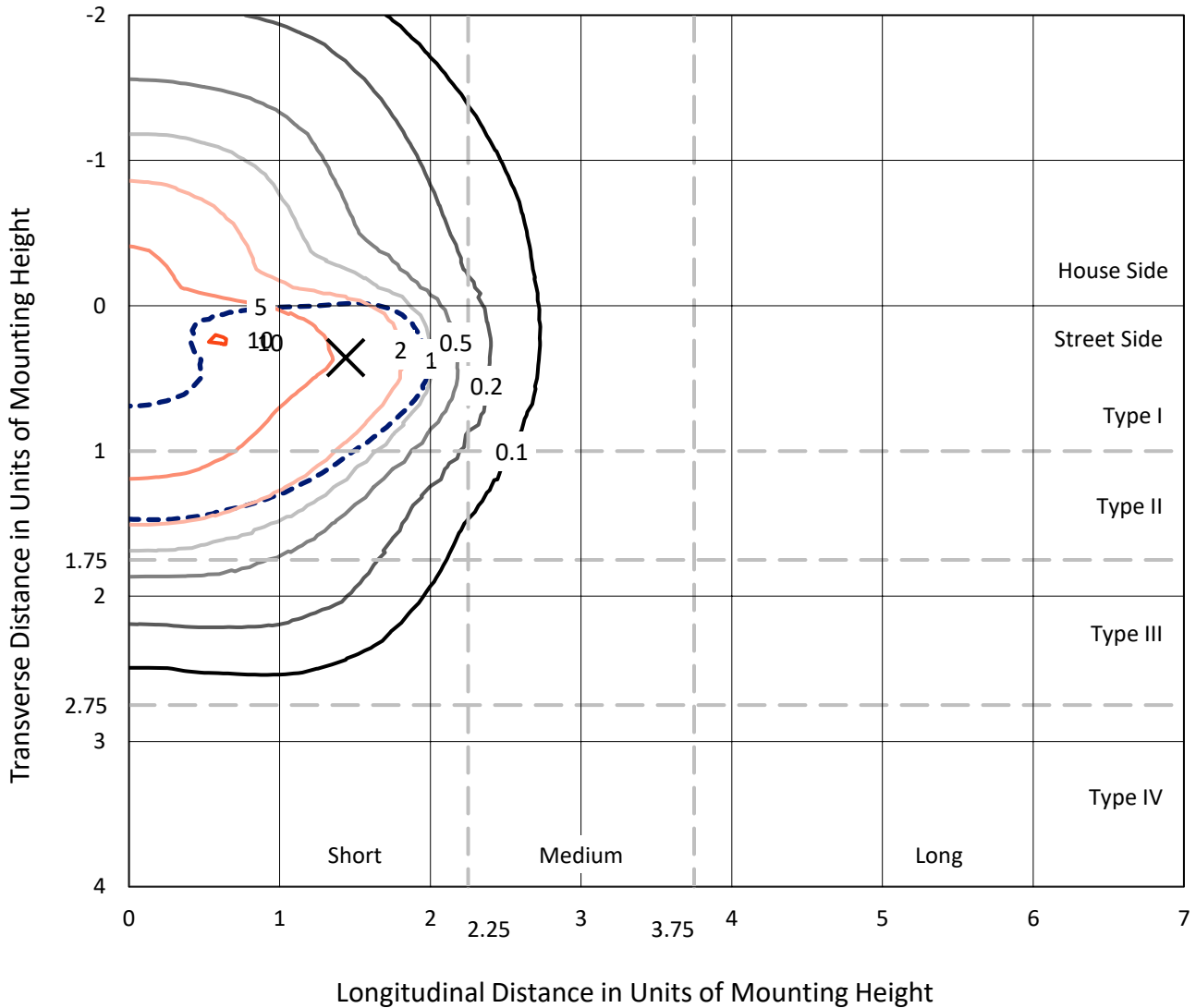
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

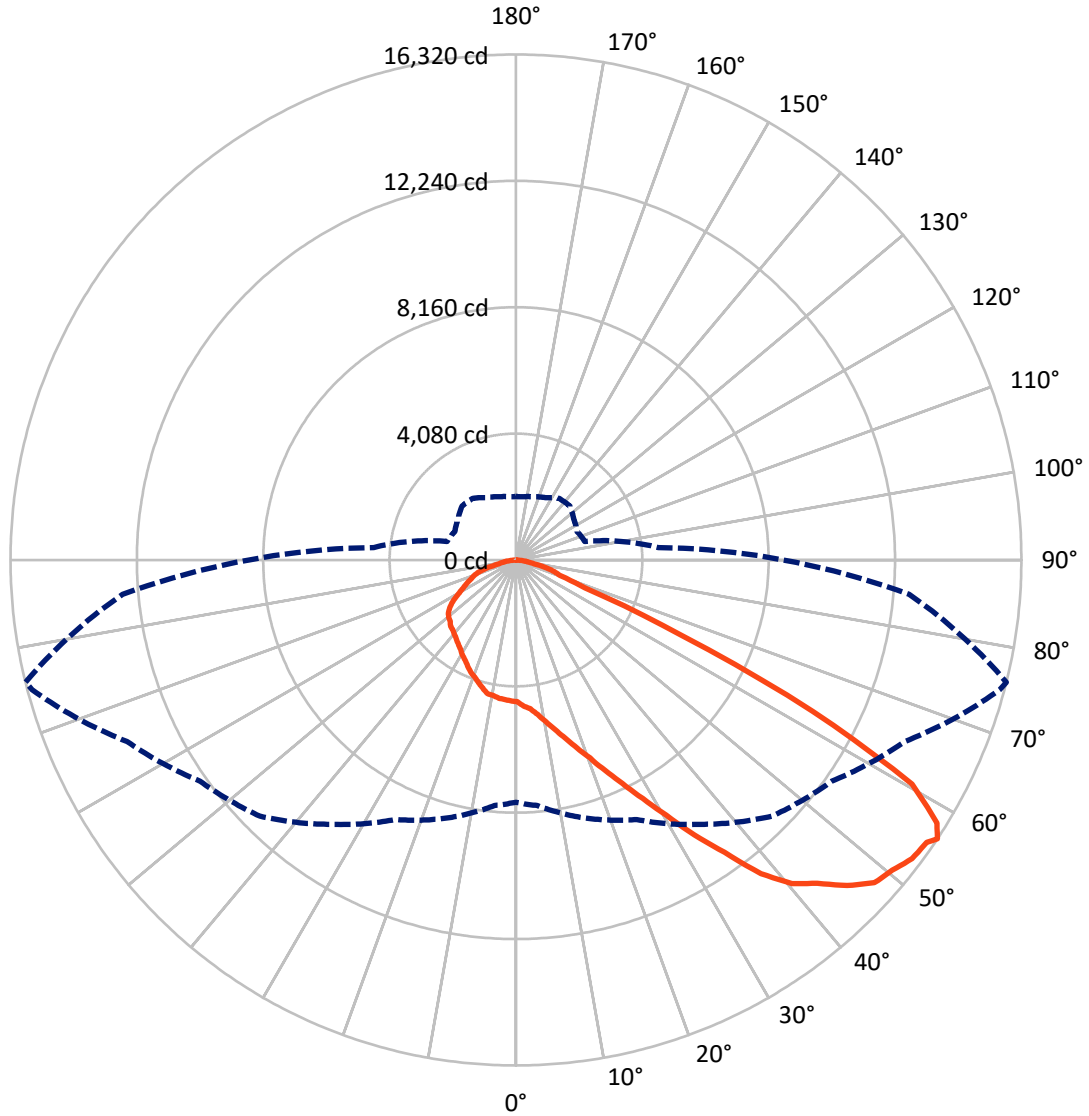
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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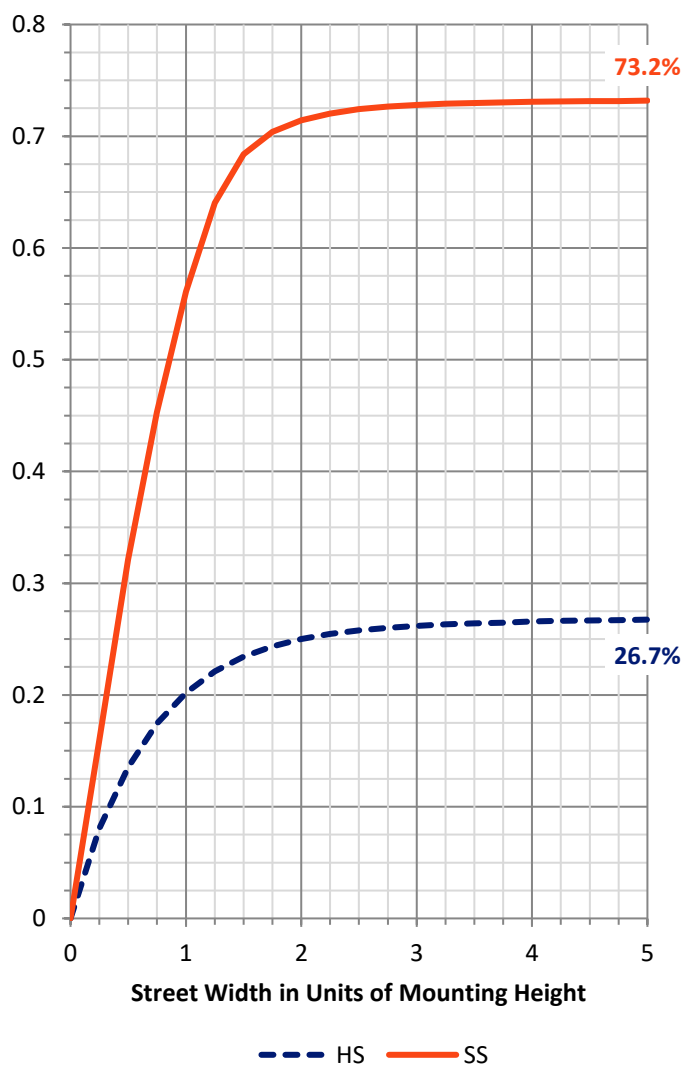
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6429.2	0.0	6429.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	17482.8	0.0	17482.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	23912.0	0.0	23912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.7	1.9
10°-20°	1425.3	6.0
20°-30°	2492.7	10.4
30°-40°	3902.8	16.3
40°-50°	5677.5	23.7
50°-60°	6239.9	26.1
60°-70°	2785.2	11.6
70°-80°	804.5	3.4
80°-90°	130.5	0.5
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°	23912.0	100.0
0°-180°	23912.0	100.0

Coefficient of Utilization



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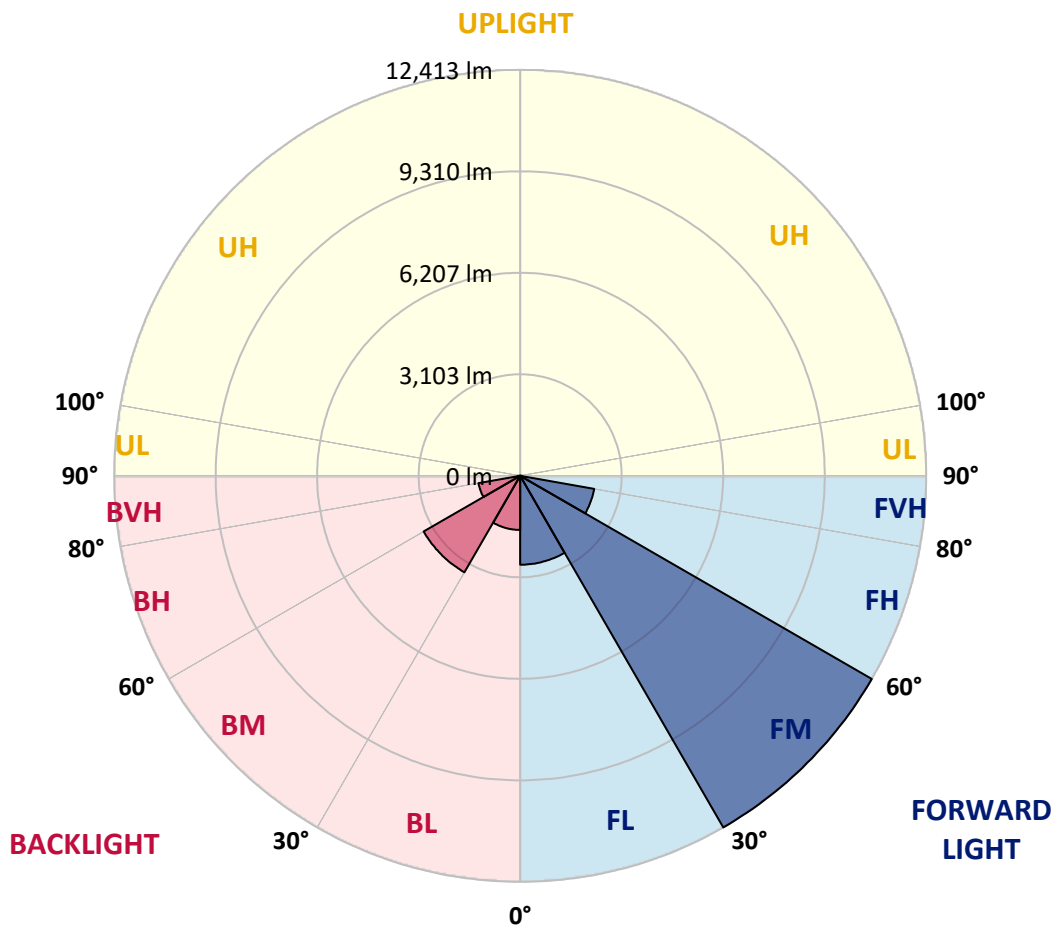
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2717.3	11.4			
FM (30°-60°)	12413.2	51.9			
FH (60°-80°)	2296.1	9.6			G2/5000
FVH (80°-90°)	56.2	0.2			G1/100
BL (0°-30°)	1654.4	6.9	B3/2500		
BM (30°-60°)	3407.0	14.2	B3/5000		
BH (60°-80°)	1293.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3
2.5°	5040.2	4959.6	4953.4	4931.7	4944.1	4888.3	4829.4	4751.9	4671.3	4720.9	4603.2
5°	5393.6	5285.1	5328.5	5254.1	5263.4	5189.0	5068.1	4978.2	4879.0	4820.1	4736.4
7.5°	5517.6	5526.9	5557.9	5545.5	5483.5	5483.5	5402.9	5244.8	5071.2	5037.1	4897.6
10°	5685.0	5688.1	5654.0	5663.3	5750.1	5709.8	5638.5	5570.3	5347.1	5306.8	5058.8
12.5°	5743.9	5688.1	5743.9	5793.5	5895.8	5951.6	5936.1	5886.5	5647.8	5619.9	5257.2
15°	5753.2	5719.1	5765.6	5877.2	5967.0	6202.6	6320.4	6286.3	5970.1	5973.2	5480.4
17.5°	5709.8	5756.3	5774.9	5871.0	6078.6	6298.7	6639.7	6686.2	6425.8	6385.5	5762.5
20°	5768.7	5734.6	5759.4	5846.2	6122.0	6466.1	6912.5	7219.4	6853.6	6825.7	6053.8
22.5°	5994.9	5948.5	5942.3	5998.0	6196.4	6552.9	7200.8	7752.5	7374.3	7389.8	6416.5
25°	6171.6	6196.4	6174.7	6171.6	6295.6	6683.1	7582.0	8388.0	8081.1	7991.2	6844.3
27.5°	6475.4	6534.3	6490.9	6549.8	6521.9	6878.4	7854.8	9091.6	8843.6	8722.7	7231.8
30°	6897.0	6928.0	6887.7	6887.7	6804.0	7151.2	8102.8	9826.3	9724.0	9559.7	7687.4
32.5°	7451.8	7498.3	7417.7	7371.2	7358.8	7557.2	8549.2	10551.6	10725.2	10585.7	8291.9
35°	8186.5	8158.6	8062.5	8019.1	7851.7	8180.3	9212.5	11385.4	11841.1	11593.1	9023.4
37.5°	8834.3	8790.9	8784.7	8543.0	8583.3	8852.9	9776.7	12017.8	12922.9	12851.6	9795.3
40°	9438.8	9479.1	9544.2	9407.8	9345.8	9643.4	10433.8	12501.4	13763.0	13735.1	10390.4
42.5°	10086.6	10049.4	10164.1	10049.4	9956.4	10378.0	11146.8	12836.1	14500.7	14271.3	11013.5
45°	11025.9	10908.1	10948.4	10957.7	10889.5	11044.5	11441.2	13077.9	15018.4	14993.6	11469.1
47.5°	11810.1	11813.2	11745.0	11692.3	11484.6	11639.6	11769.8	13229.8	15613.5	15573.2	11645.8
50°	12101.5	12061.2	12259.6	12374.3	12386.7	12070.5	12027.1	13313.5	15926.6	15749.9	11822.5
52.5°	11053.8	11091.0	11404.0	12086.0	12479.7	12513.8	12327.8	13487.1	16053.7	16016.5	11965.1
55°	8896.3	9076.1	9590.7	10378.0	11311.0	12337.1	12653.2	13666.9	16121.9	16090.9	12597.4
56°	7820.7	7960.2	8629.7	9246.6	10418.3	11695.4	12448.7	13859.1	16174.6	16320.3	12746.2
57.5°	6295.6	6456.8	6937.3	7637.8	9020.3	10474.1	11884.5	13623.5	15970.0	16025.8	12854.7
60°	3936.7	3952.2	4528.8	4990.6	5963.9	7383.6	9069.9	11853.5	14779.7	14699.1	11546.6
62.5°	2582.1	2585.2	3109.1	3487.2	3930.5	4256.0	5337.8	7861.0	10905.0	10762.4	8220.6
65°	1813.4	1853.7	2259.7	2765.0	2944.8	2774.3	2740.2	4144.4	6091.0	5886.5	4417.2
67.5°	1326.7	1329.8	1689.4	2231.8	2492.2	2110.9	1714.2	2024.1	2411.6	2405.4	2045.8
70°	877.2	914.4	1190.3	1667.7	1965.3	1695.6	1401.1	1447.6	1534.4	1534.4	1522.0
72.5°	511.5	545.6	728.4	1057.0	1103.5	1060.1	1109.7	1239.9	1295.7	1292.6	1277.1
75°	291.4	306.9	347.2	440.2	548.7	647.9	815.2	939.2	995.0	1029.1	988.8
77.5°	170.5	179.8	204.6	251.1	285.2	350.3	443.3	530.1	604.5	595.2	601.4
80°	89.9	89.9	114.7	148.8	198.4	248.0	294.5	344.1	384.4	393.7	403.0
82.5°	52.7	55.8	74.4	108.5	142.6	176.7	226.3	260.4	297.6	300.7	306.9
85°	27.9	31.0	46.5	71.3	96.1	108.5	111.6	105.4	114.7	108.5	124.0
87.5°	9.3	9.3	15.5	12.4	12.4	15.5	18.6	18.6	24.8	24.8	24.8
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°	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3	4575.3
2.5°	4600.1	4600.1	4547.4	4448.2	4432.7	4392.4	4355.2	4352.1	4324.2	4299.4	4287.0
5°	4686.8	4590.8	4513.3	4423.4	4318.0	4268.4	4212.6	4150.6	4125.8	4150.6	4147.5
7.5°	4786.0	4705.4	4473.0	4305.6	4184.7	4135.1	4073.1	4008.0	4014.2	4014.2	3970.8
10°	4882.1	4773.6	4401.7	4187.8	4011.1	3973.9	3939.8	3964.6	3995.6	4001.8	3973.9
12.5°	5043.3	4798.4	4367.6	4070.0	3958.4	3877.8	3899.5	3967.7	4032.8	4014.2	4035.9
15°	5164.2	4820.1	4212.6	3949.1	3809.6	3846.8	3924.3	3970.8	4079.3	4066.9	4088.6
17.5°	5282.0	4832.5	4060.7	3787.9	3729.0	3831.3	3890.2	4023.5	4057.6	4132.0	4159.9
20°	5523.8	4857.3	3905.7	3688.7	3670.1	3787.9	3890.2	3952.2	4026.6	4091.7	4091.7
22.5°	5647.8	4844.9	3803.4	3558.5	3617.4	3691.8	3784.8	3890.2	3890.2	3952.2	3955.3
25°	5802.8	4795.3	3642.2	3496.5	3539.9	3611.2	3716.6	3679.4	3719.7	3719.7	3769.3
27.5°	5979.4	4689.9	3502.7	3384.9	3471.7	3549.2	3564.7	3539.9	3493.4	3487.2	3468.6
30°	6122.0	4559.8	3400.4	3347.7	3419.0	3462.4	3412.8	3360.1	3279.6	3273.4	3230.0
32.5°	6317.3	4398.6	3273.4	3254.8	3335.3	3338.4	3322.9	3242.4	3124.6	3075.0	3025.4
35°	6645.9	4305.6	3177.3	3205.2	3230.0	3220.7	3192.8	3106.0	2988.2	2966.5	2947.9
37.5°	6887.7	4237.4	3078.1	3112.2	3133.9	3146.3	3062.6	2966.5	2969.6	2926.2	2913.8
40°	7160.5	4194.0	2997.5	3013.0	3016.1	3056.4	2954.1	2907.6	2929.3	2901.4	2920.0
42.5°	7510.7	4206.4	2913.8	2901.4	2960.3	2944.8	2895.2	2833.2	2845.6	2761.9	2774.3
45°	7696.7	4290.1	2864.2	2808.4	2873.5	2870.4	2805.3	2746.4	2672.0	2510.8	2517.0
47.5°	7820.7	4311.8	2746.4	2709.2	2777.4	2817.7	2743.3	2606.9	2501.5	2386.8	2358.9
50°	7947.8	4352.1	2690.6	2613.1	2641.0	2737.1	2644.1	2513.9	2411.6	2309.3	2324.8
52.5°	8059.4	4429.6	2582.1	2467.4	2517.0	2622.4	2572.8	2414.7	2303.1	2219.4	2194.6
55°	8555.4	4603.2	2399.2	2250.4	2368.2	2501.5	2473.6	2281.4	2160.5	2117.1	2110.9
56°	8632.8	4609.4	2303.1	2176.0	2284.5	2461.2	2427.1	2222.5	2114.0	2045.8	2048.9
57.5°	8645.2	4535.0	2166.7	2107.8	2200.8	2402.3	2358.9	2176.0	2027.2	1965.3	1946.7
60°	7606.8	3539.9	1996.2	1959.1	2067.5	2222.5	2207.0	2048.9	1881.6	1810.3	1844.4
62.5°	5185.9	2594.5	1863.0	1856.8	1912.6	2064.4	2024.1	1881.6	1742.1	1695.6	1673.9
65°	3019.2	1968.4	1732.8	1708.0	1754.5	1835.1	1863.0	1714.2	1568.5	1537.5	1528.2
67.5°	1782.4	1627.4	1565.4	1525.1	1509.6	1559.2	1580.9	1494.1	1348.4	1305.0	1342.2
70°	1491.0	1447.6	1450.7	1382.5	1345.3	1311.2	1292.6	1215.1	1094.2	1038.4	1022.9
72.5°	1286.4	1267.8	1255.4	1193.4	1159.3	1081.8	1001.2	923.7	833.8	787.3	790.4
75°	982.6	976.4	982.6	951.6	892.7	830.7	756.3	657.2	589.0	530.1	542.5
77.5°	585.9	604.5	613.8	601.4	576.6	520.8	474.3	409.2	344.1	297.6	291.4
80°	403.0	418.5	434.0	418.5	393.7	353.4	303.8	254.2	207.7	182.9	176.7
82.5°	306.9	322.4	331.7	316.2	285.2	241.8	207.7	173.6	136.4	111.6	105.4
85°	111.6	127.1	124.0	148.8	161.2	155.0	133.3	102.3	77.5	55.8	52.7
87.5°	31.0	27.9	31.0	31.0	31.0	27.9	24.8	24.8	24.8	15.5	12.4
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)