

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: P651476

Luminaire Tested: **GALN-SA6D-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23038.4 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

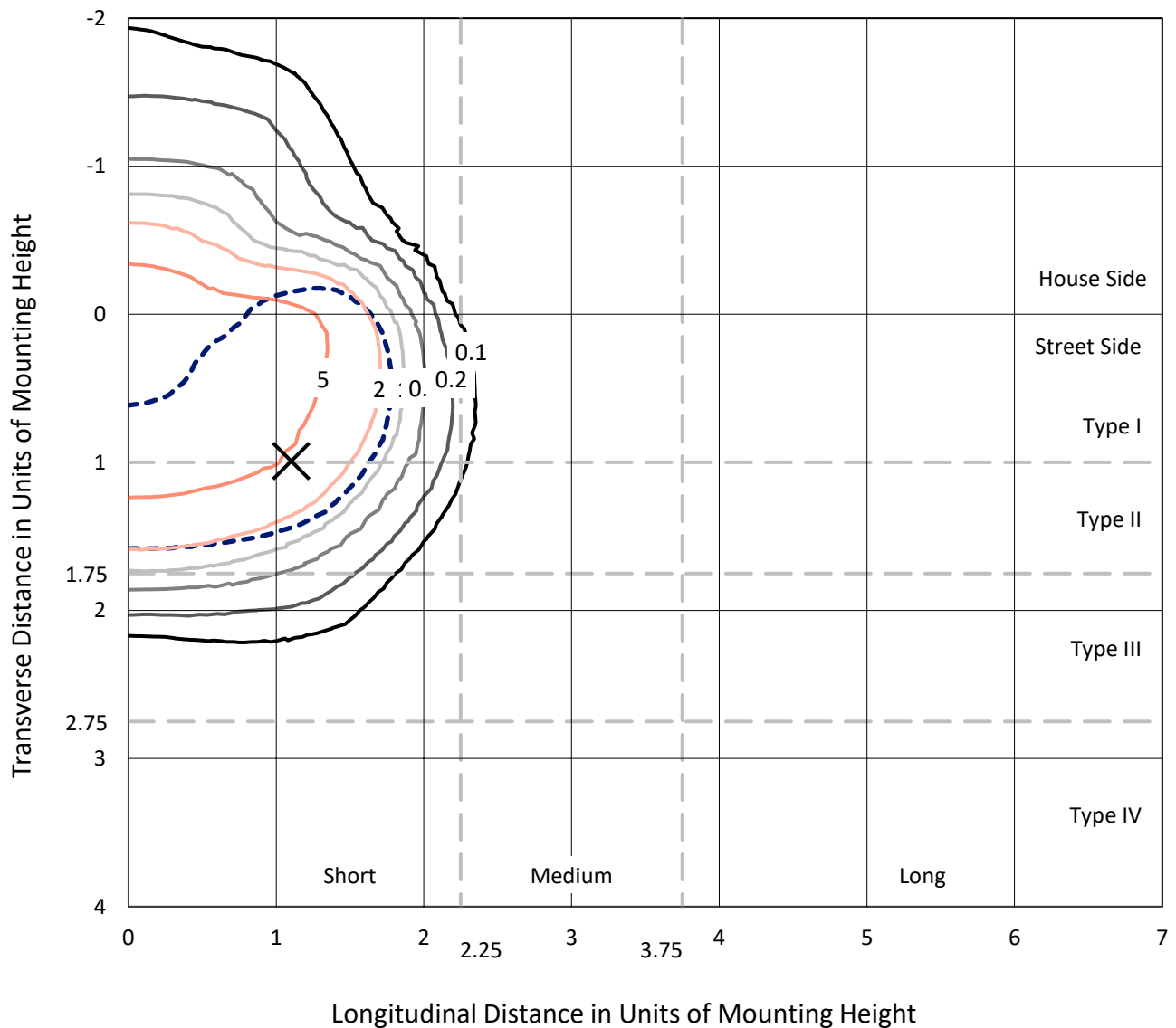
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

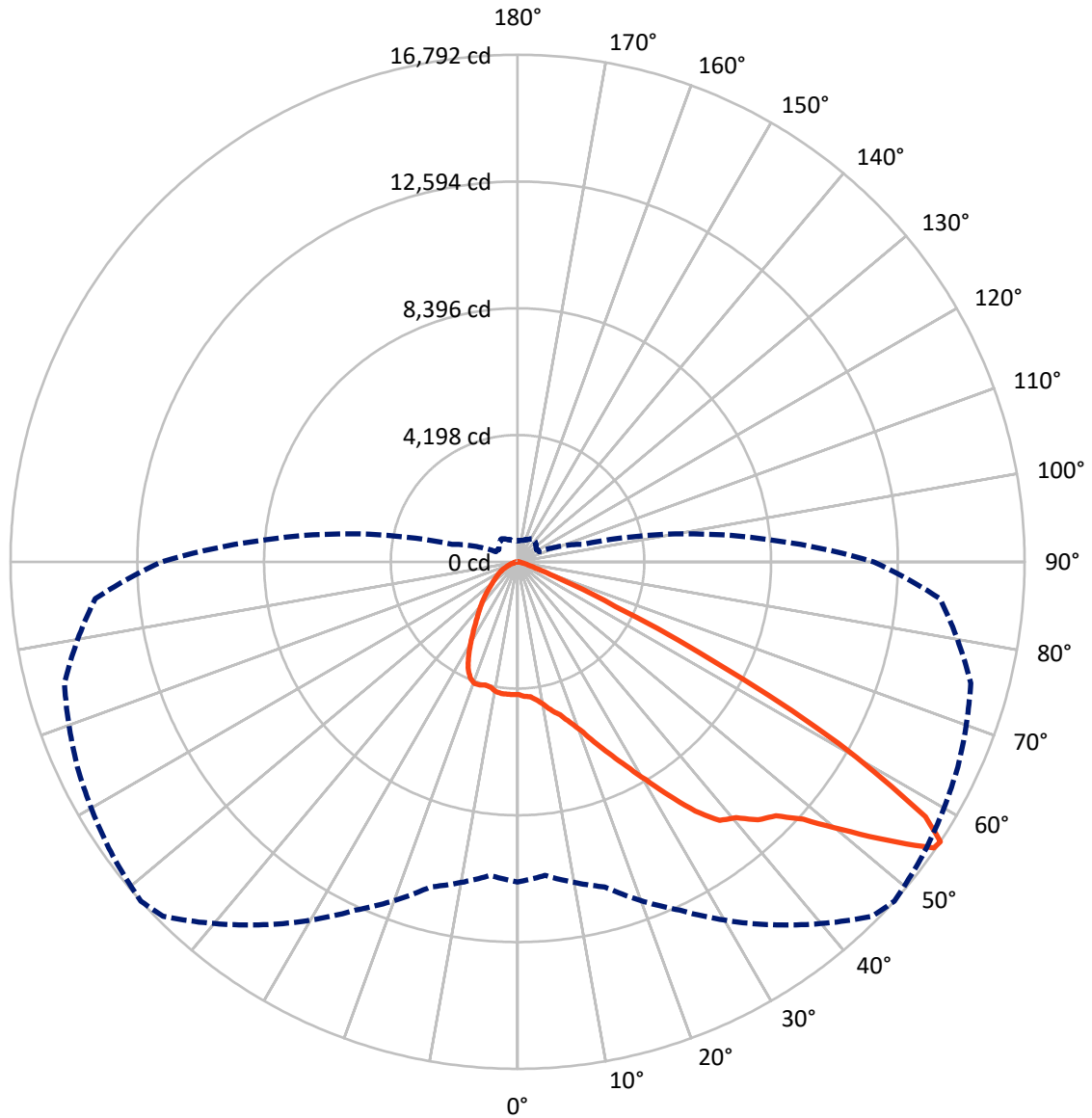
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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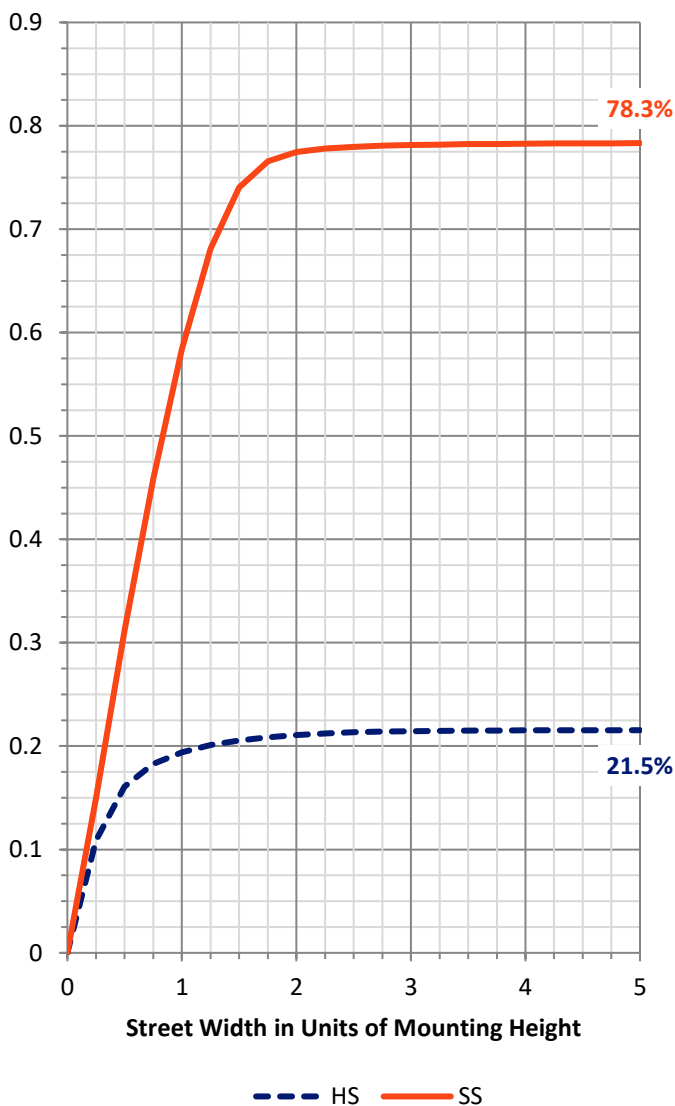
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5010.4	0.0	5010.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	18027.9	0.0	18027.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	23038.4	0.0	23038.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.6	1.9
10°-20°	1369.9	5.9
20°-30°	2484.7	10.8
30°-40°	3902.9	16.9
40°-50°	5693.6	24.7
50°-60°	6859.7	29.8
60°-70°	2008.5	8.7
70°-80°	254.8	1.1
80°-90°	35.7	0.2
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°	23038.4	100.0
0°-180°	23038.4	100.0

Coefficient of Utilization



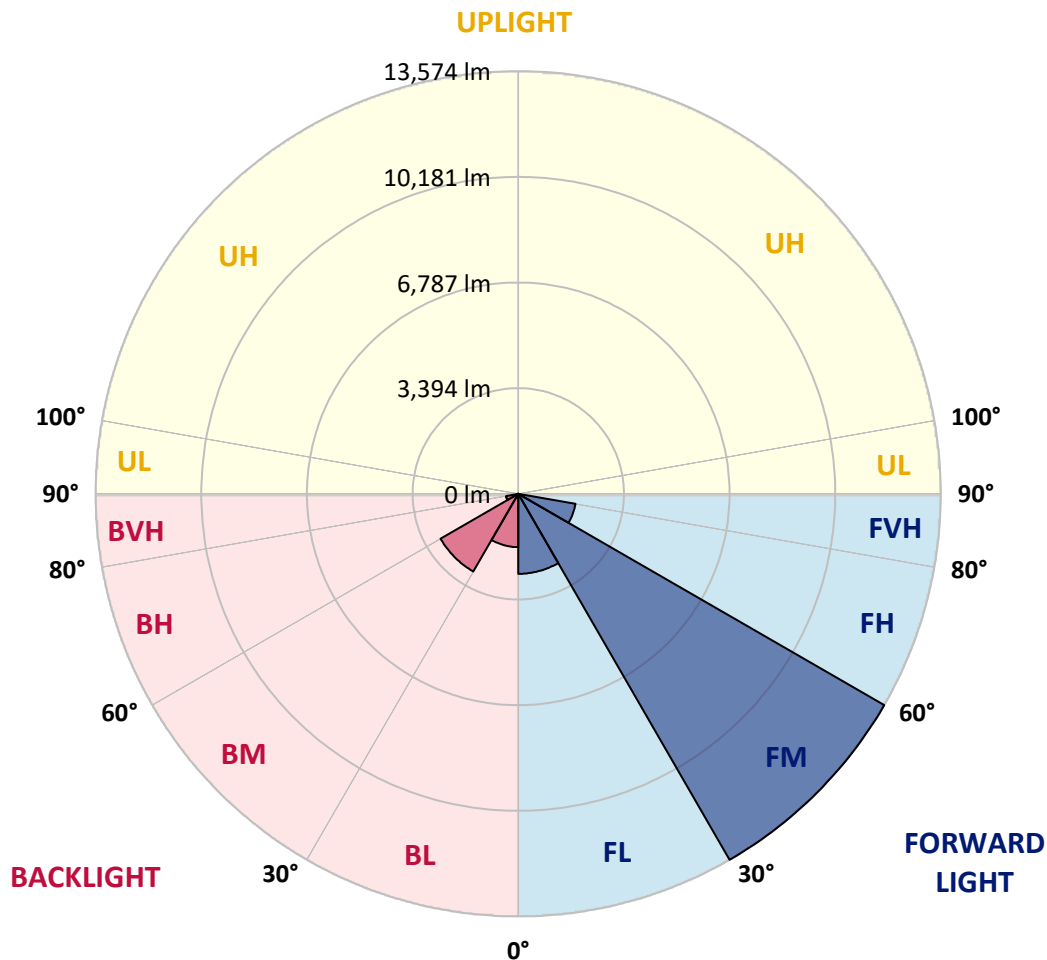
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2570.6	11.2			
FM (30°-60°)	13574.3	58.9			
FH (60°-80°)	1865.1	8.1			G2/5000
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1712.5	7.4	B3/2500		
BM (30°-60°)	2882.0	12.5	B3/5000		
BH (60°-80°)	398.1	1.7	B1/500		G1/500
BVH (80°-90°)	17.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4
2.5°	4480.0	4459.1	4459.1	4425.5	4463.3	4446.5	4459.1	4417.1	4459.1	4396.2	4446.5
5°	4501.0	4505.2	4488.4	4509.4	4509.4	4534.6	4492.6	4530.4	4551.3	4505.2	4484.2
7.5°	4610.1	4618.4	4614.2	4597.5	4631.1	4626.8	4622.6	4593.3	4601.7	4584.9	4559.7
10°	4824.0	4819.9	4840.8	4798.8	4773.7	4803.0	4811.4	4765.3	4731.7	4719.1	4639.5
12.5°	5134.4	5084.1	5054.7	5012.8	5025.4	4983.4	5059.0	4979.2	4962.4	4887.0	4807.2
15°	5386.1	5377.7	5381.9	5314.8	5239.3	5256.1	5256.1	5214.1	5189.0	5096.7	4983.4
17.5°	5902.1	5725.9	5763.6	5679.8	5616.8	5612.7	5574.9	5583.2	5516.1	5323.2	5151.2
20°	6304.8	6229.3	6170.5	6028.0	5931.4	5960.8	5944.0	5902.1	5881.1	5629.4	5386.1
22.5°	6665.5	6690.7	6594.2	6556.4	6422.2	6434.8	6468.4	6430.6	6271.3	6011.1	5650.3
25°	7173.1	7143.7	7013.7	6967.5	6841.7	6887.9	7017.9	6988.5	6887.9	6418.0	5856.0
27.5°	7772.9	7672.3	7697.4	7487.7	7366.1	7496.1	7651.3	7798.1	7512.9	6896.2	6099.2
30°	8196.6	8091.8	8083.4	8074.9	8045.6	8196.6	8377.0	8511.3	8280.5	7374.5	6501.9
32.5°	8406.4	8431.5	8502.8	8477.7	8733.5	9043.9	9232.8	9425.7	9136.3	8154.7	7034.6
35°	8964.3	8804.8	8964.3	8981.0	9245.3	9903.9	10143.0	10604.4	10533.1	9257.9	7684.9
37.5°	9291.5	9278.8	9299.9	9459.2	9715.1	10528.9	10868.7	11225.2	11091.0	9920.7	8494.4
40°	9832.6	9866.1	9862.0	9983.6	10264.7	10998.8	11137.2	11426.6	11439.2	10839.3	9685.8
42.5°	10700.9	10566.7	10478.6	10604.4	10998.8	11405.6	11682.5	11623.8	12039.1	11955.2	11216.8
45°	11481.2	11560.8	11430.8	11640.5	11783.2	12001.3	11992.9	12118.7	12647.3	13045.8	12370.4
47.5°	12211.1	12261.4	12324.3	12466.9	12777.3	12810.9	12739.6	12685.1	13415.0	13826.0	13263.9
50°	12647.3	12693.5	12987.1	13243.0	13821.8	13897.4	13939.3	13800.9	14295.8	14342.0	14107.1
52.5°	12529.8	12580.2	12991.3	13834.4	14757.3	15449.4	15323.6	15088.6	15059.3	15239.7	14887.3
55°	11489.6	11443.4	12009.6	13322.6	15050.9	16712.0	16728.8	16481.3	16007.3	15885.6	14769.9
56°	10604.4	10424.0	11145.5	12731.2	14673.3	16603.0	16791.7	16527.5	16082.9	15537.5	14044.2
57.5°	8687.4	8859.4	9576.7	10889.7	13368.8	15818.5	15927.6	15864.7	15529.1	14614.6	12357.8
60°	4790.4	5092.5	5725.9	7332.5	9518.0	12139.8	12227.8	12739.6	12802.5	11191.7	8502.8
62.5°	2034.5	2000.9	2659.5	3842.4	5419.7	7328.3	7491.9	8016.2	8112.7	6451.6	4266.1
65°	826.4	872.5	1203.9	1933.8	2865.0	3339.0	3569.8	3741.8	4060.5	2663.7	1573.0
67.5°	545.3	541.1	708.9	1103.2	1543.7	1489.2	1489.2	1573.0	1455.6	1086.5	679.5
70°	390.1	402.7	507.5	763.5	960.6	713.1	683.7	654.4	742.5	717.3	549.5
72.5°	255.9	272.7	339.8	457.3	499.2	390.1	390.1	469.8	612.4	578.9	448.8
75°	167.8	172.0	209.7	264.2	247.5	201.3	222.4	314.6	444.6	427.9	318.8
77.5°	113.3	117.5	142.6	172.0	138.4	113.3	121.6	159.4	218.2	218.2	167.8
80°	42.0	46.2	58.7	54.5	62.9	79.7	88.1	109.1	130.0	130.0	113.3
82.5°	0.0	4.2	12.6	29.4	46.2	62.9	71.3	83.9	96.5	109.1	104.9
85°	0.0	4.2	12.6	20.9	33.6	37.8	42.0	29.4	25.1	25.1	20.9
87.5°	0.0	0.0	4.2	4.2	4.2	4.2	4.2	4.2	8.4	4.2	4.2
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°	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4	4400.4
2.5°	4400.4	4396.2	4396.2	4383.5	4408.7	4396.2	4404.6	4400.4	4345.8	4387.7	4358.4
5°	4446.5	4475.8	4429.7	4421.3	4387.7	4400.4	4400.4	4358.4	4396.2	4392.0	4383.5
7.5°	4563.9	4513.6	4463.3	4412.9	4404.6	4392.0	4345.8	4329.0	4358.4	4324.8	4375.1
10°	4614.2	4622.6	4547.1	4480.0	4417.1	4329.0	4266.1	4228.4	4182.2	4232.6	4261.9
12.5°	4845.0	4761.1	4631.1	4526.2	4312.2	4224.2	4161.3	4144.4	4224.2	4240.9	4211.6
15°	4924.6	4912.1	4744.3	4509.4	4287.1	4182.2	4194.8	4161.3	4169.6	4127.7	4136.0
17.5°	5088.3	4945.7	4748.5	4454.9	4282.9	4257.7	4182.2	4048.0	3972.5	3938.9	3968.3
20°	5268.7	5130.3	4845.0	4475.8	4320.6	4253.5	4006.0	3842.4	3687.2	3603.3	3607.6
22.5°	5428.1	5256.1	4803.0	4484.2	4354.2	4077.3	3779.5	3456.5	3263.6	3133.5	3137.7
25°	5621.0	5377.7	4819.9	4501.0	4266.1	3796.3	3368.5	3053.8	2823.1	2735.0	2764.4
27.5°	5730.1	5453.2	4912.1	4538.8	4035.4	3397.8	2936.4	2642.8	2508.5	2466.6	2462.4
30°	6057.3	5621.0	5025.4	4463.3	3649.4	2969.9	2542.0	2361.7	2231.6	2193.9	2202.2
32.5°	6543.9	5927.2	5172.2	4266.1	3255.2	2588.2	2286.2	2152.0	2030.3	1958.9	1950.6
35°	6950.8	6451.6	5327.4	3959.8	2797.9	2294.6	2105.8	1938.0	1753.4	1673.8	1652.7
37.5°	7726.8	7043.0	5293.8	3498.5	2361.7	2076.4	1912.9	1707.3	1547.9	1438.8	1426.3
40°	8758.8	7735.2	5130.3	2936.4	2038.7	1883.4	1707.3	1510.1	1313.0	1220.7	1212.3
42.5°	10012.9	8582.6	4832.4	2365.9	1715.6	1690.5	1531.1	1304.6	1128.4	1061.3	1065.5
45°	11032.3	9308.3	4530.4	1900.2	1476.5	1501.8	1363.3	1149.4	1027.7	973.2	973.2
47.5°	11938.4	9799.0	4203.1	1568.9	1254.3	1313.0	1191.4	1065.5	960.6	918.6	910.3
50°	12810.9	10298.2	3876.0	1271.0	1069.7	1128.4	1115.8	1015.2	931.2	880.9	885.1
52.5°	13356.2	10377.9	3460.7	1040.3	935.4	1002.6	1044.5	952.2	859.9	830.6	822.2
55°	12689.3	9350.2	2684.6	855.7	792.8	880.9	960.6	855.7	784.4	734.1	729.9
56°	11791.6	8360.2	2244.2	788.6	750.8	847.3	931.2	818.0	738.3	708.9	687.9
57.5°	9983.6	6841.7	1656.9	700.6	696.3	788.6	885.1	780.2	687.9	662.8	662.8
60°	6225.1	3850.9	1002.6	587.3	604.1	700.6	797.0	696.3	612.4	612.4	625.0
62.5°	2835.7	1602.4	608.2	499.2	520.2	604.1	708.9	629.2	583.1	629.2	637.6
65°	964.8	692.1	440.4	398.5	411.1	499.2	608.2	637.6	633.4	662.8	679.5
67.5°	541.1	444.6	369.1	331.4	323.0	369.1	499.2	637.6	612.4	599.9	608.2
70°	457.3	377.5	327.2	293.7	281.1	297.8	385.9	482.4	432.0	419.5	411.1
72.5°	369.1	314.6	285.3	264.2	226.5	192.9	176.2	184.6	205.5	218.2	239.1
75°	260.0	239.1	239.1	214.0	163.6	121.6	96.5	79.7	54.5	37.8	42.0
77.5°	146.8	146.8	151.0	130.0	104.9	79.7	58.7	42.0	20.9	8.4	4.2
80°	100.7	109.1	117.5	104.9	88.1	71.3	50.4	29.4	12.6	0.0	0.0
82.5°	100.7	113.3	121.6	104.9	88.1	67.1	50.4	29.4	12.6	4.2	0.0
85°	20.9	25.1	29.4	33.6	50.4	50.4	37.8	25.1	12.6	4.2	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	0.0	0.0
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)