

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: P533778

Luminaire Tested: **GALN-SA9B-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533778
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-SA9B-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 36186 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

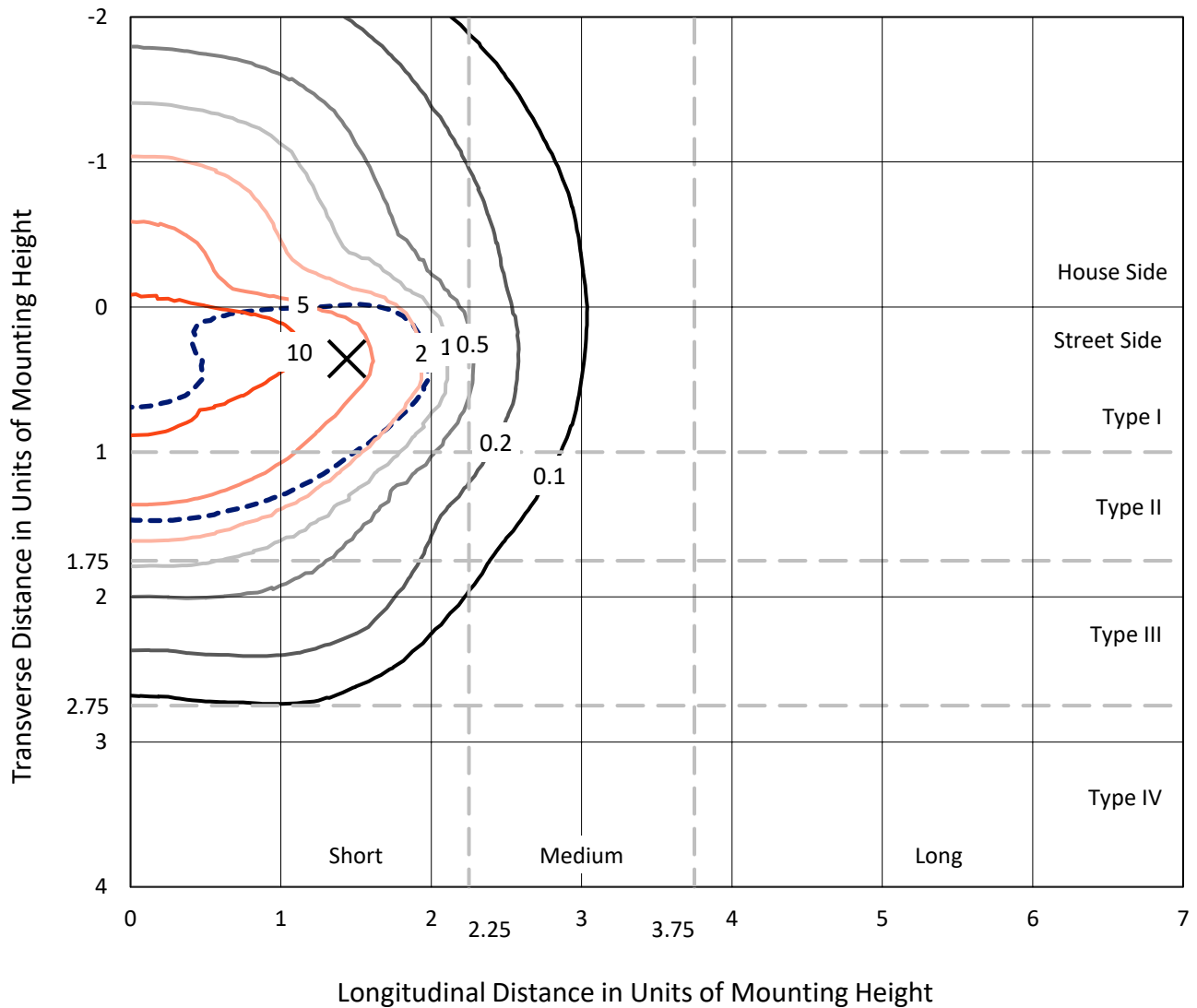
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

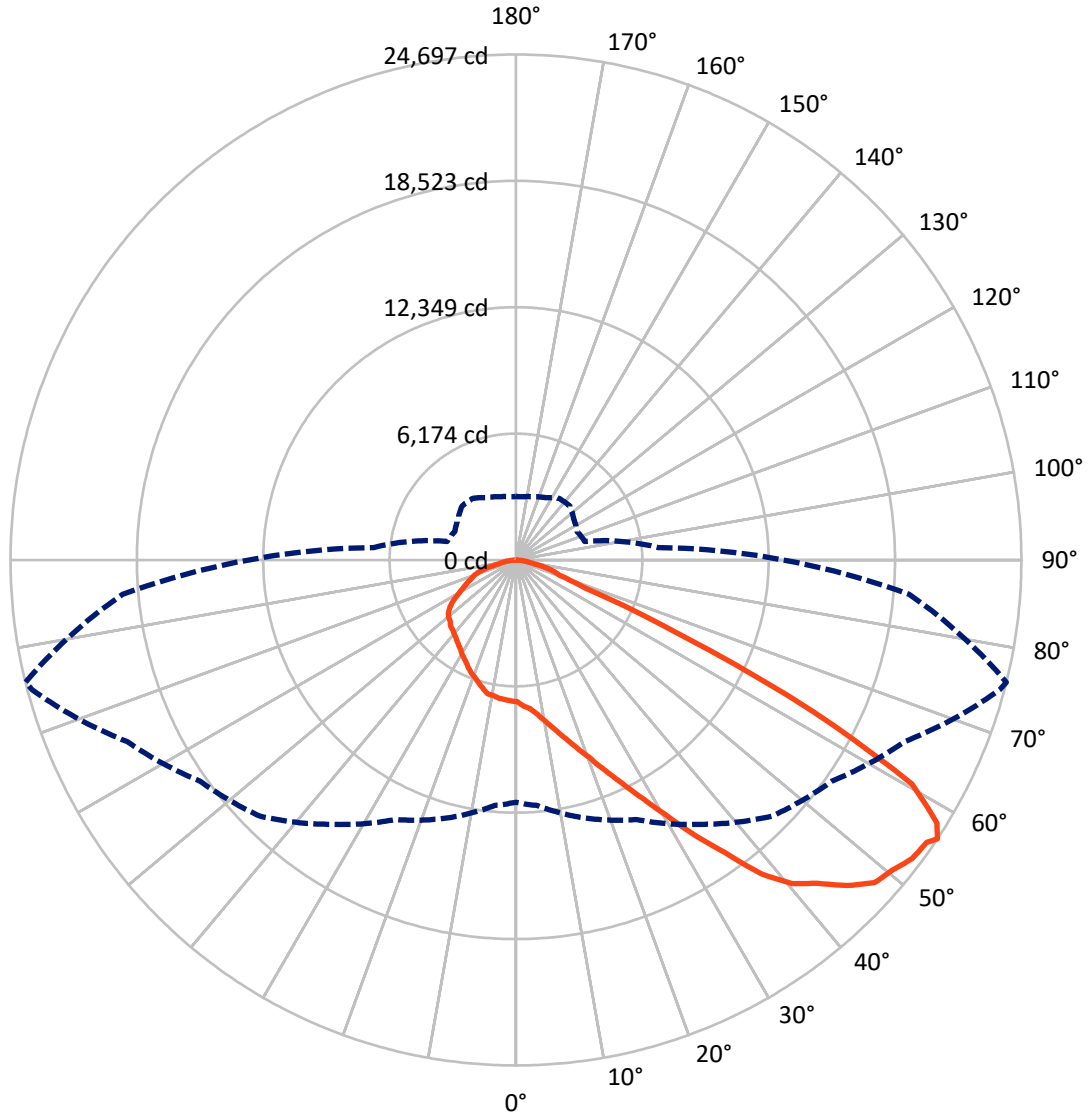
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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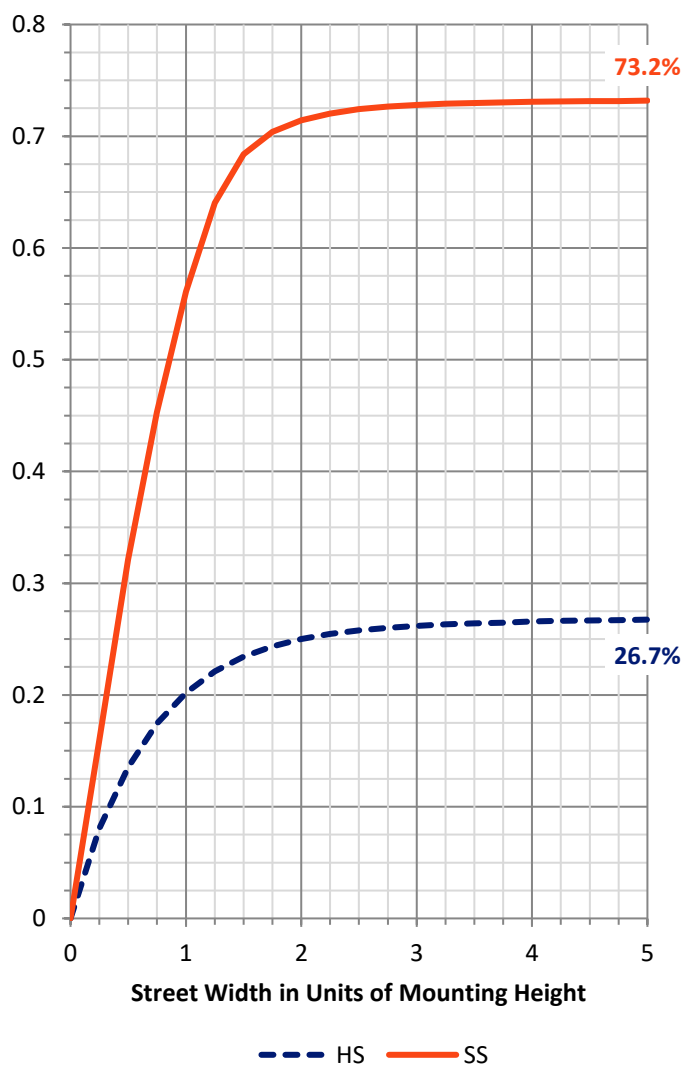
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9729.3	0.0	9729.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	26456.7	0.0	26456.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	36186.0	0.0	36186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.6	1.9
10°-20°	2156.9	6.0
20°-30°	3772.2	10.4
30°-40°	5906.1	16.3
40°-50°	8591.7	23.7
50°-60°	9442.8	26.1
60°-70°	4214.9	11.6
70°-80°	1217.4	3.4
80°-90°	197.5	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°	36186.0	100.0
0°-180°	36186.0	100.0

Coefficient of Utilization



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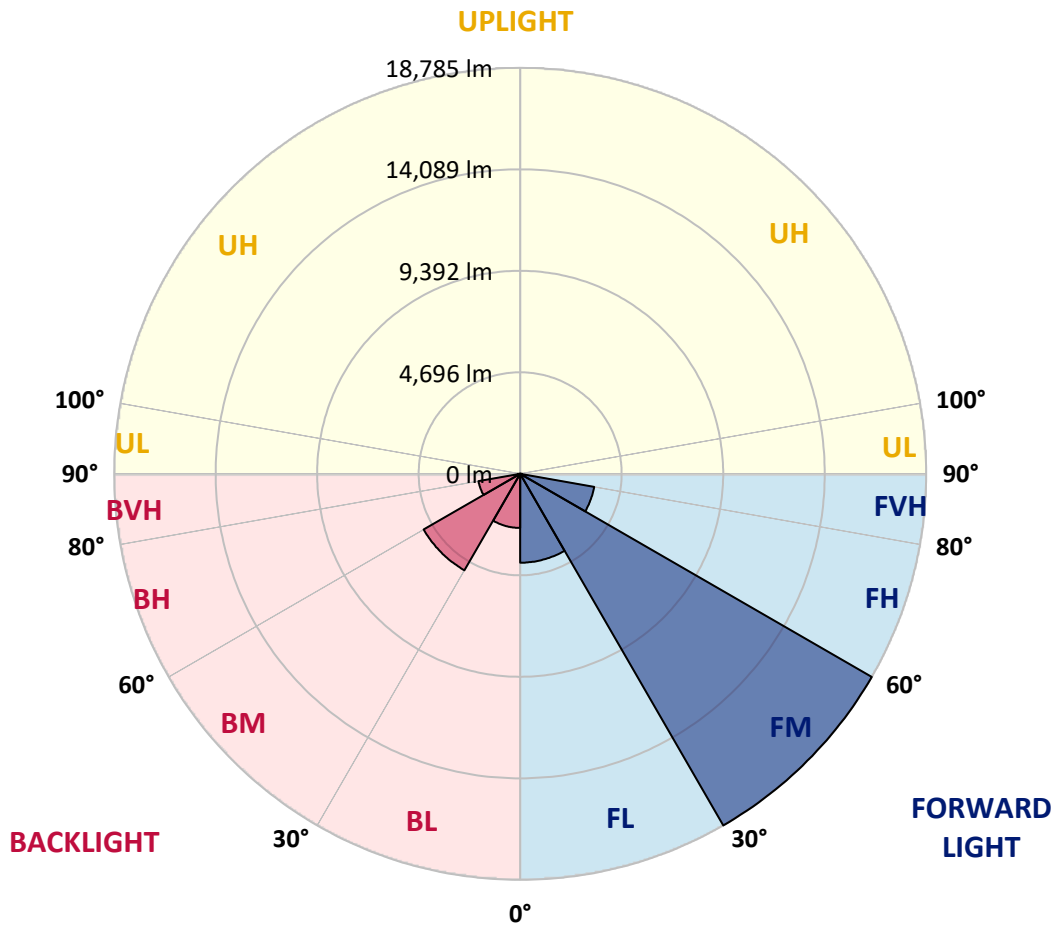
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4112.1	11.4			
FM (30°-60°)	18784.8	51.9			
FH (60°-80°)	3474.7	9.6			G2/5000
FVH (80°-90°)	85.0	0.2			G1/100
BL (0°-30°)	2503.5	6.9	B4/5000		
BM (30°-60°)	5155.8	14.2	B4/8500		
BH (60°-80°)	1957.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	112.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7
2.5°	7627.4	7505.4	7496.0	7463.2	7481.9	7397.5	7308.4	7191.1	7069.1	7144.2	6965.9
5°	8162.1	7997.9	8063.6	7951.0	7965.1	7852.5	7669.6	7533.5	7383.4	7294.3	7167.7
7.5°	8349.8	8363.8	8410.7	8392.0	8298.2	8298.2	8176.2	7937.0	7674.3	7622.7	7411.6
10°	8603.1	8607.7	8556.1	8570.2	8701.6	8640.6	8532.7	8429.5	8091.8	8030.8	7655.5
12.5°	8692.2	8607.7	8692.2	8767.2	8922.0	9006.5	8983.0	8908.0	8546.8	8504.6	7955.7
15°	8706.3	8654.7	8725.0	8893.9	9029.9	9386.4	9564.7	9513.1	9034.6	9039.3	8293.5
17.5°	8640.6	8710.9	8739.1	8884.5	9198.8	9531.9	10047.8	10118.2	9724.2	9663.2	8720.3
20°	8729.7	8678.1	8715.6	8847.0	9264.5	9785.2	10460.6	10925.0	10371.5	10329.3	9161.3
22.5°	9072.1	9001.8	8992.4	9076.8	9377.1	9916.5	10896.9	11731.9	11159.6	11183.0	9710.1
25°	9339.5	9377.1	9344.2	9339.5	9527.2	10113.5	11473.9	12693.5	12229.1	12093.1	10357.4
27.5°	9799.2	9888.4	9822.7	9911.8	9869.6	10409.0	11886.7	13758.3	13383.1	13200.1	10943.8
30°	10437.2	10484.1	10423.1	10423.1	10296.5	10821.8	12261.9	14870.1	14715.3	14466.6	11633.4
32.5°	11276.9	11347.2	11225.3	11154.9	11136.1	11436.3	12937.4	15967.7	16230.4	16019.3	12548.1
35°	12388.6	12346.4	12201.0	12135.3	11882.0	12379.2	13941.3	17229.6	17919.1	17543.9	13655.1
37.5°	13369.0	13303.3	13293.9	12928.0	12989.0	13397.1	14795.0	18186.5	19556.2	19448.4	14823.2
40°	14283.7	14344.7	14443.2	14236.8	14143.0	14593.3	15789.5	18918.3	20827.5	20785.3	15723.8
42.5°	15264.1	15207.8	15381.4	15207.8	15067.1	15705.0	16868.4	19424.9	21943.9	21596.8	16666.7
45°	16685.4	16507.2	16568.2	16582.2	16479.0	16713.6	17314.0	19790.8	22727.3	22689.7	17356.2
47.5°	17872.2	17876.9	17773.7	17694.0	17379.7	17614.2	17811.2	20020.6	23627.9	23566.9	17623.6
50°	18313.2	18252.2	18552.4	18726.0	18744.7	18266.3	18200.6	20147.3	24101.7	23834.3	17891.0
52.5°	16727.6	16783.9	17257.7	18289.7	18885.4	18937.0	18655.6	20410.0	24294.0	24237.7	18106.8
55°	13462.8	13734.9	14513.6	15705.0	17117.0	18669.7	19148.1	20682.1	24397.2	24350.3	19063.7
56°	11835.1	12046.2	13059.4	13992.9	15766.0	17698.7	18838.5	20972.9	24477.0	24697.4	19288.9
57.5°	9527.2	9771.1	10498.2	11558.3	13650.4	15850.5	17984.8	20616.4	24167.4	24251.8	19453.0
60°	5957.4	5980.9	6853.4	7552.3	9025.2	11173.7	13725.5	17937.9	22366.1	22244.1	17473.5
62.5°	3907.5	3912.2	4704.9	5277.2	5948.0	6440.6	8077.7	11896.1	16502.5	16286.7	12440.2
65°	2744.2	2805.1	3419.6	4184.3	4456.3	4198.3	4146.7	6271.7	9217.6	8908.0	6684.5
67.5°	2007.7	2012.4	2556.5	3377.4	3771.5	3194.5	2594.1	3063.1	3649.5	3640.1	3096.0
70°	1327.5	1383.8	1801.3	2523.7	2974.0	2565.9	2120.3	2190.6	2322.0	2322.0	2303.2
72.5°	774.0	825.6	1102.4	1599.6	1670.0	1604.3	1679.3	1876.3	1960.8	1956.1	1932.6
75°	440.9	464.4	525.4	666.1	830.3	980.4	1233.7	1421.3	1505.8	1557.4	1496.4
77.5°	258.0	272.1	309.6	380.0	431.6	530.1	670.8	802.1	914.7	900.6	910.0
80°	136.0	136.0	173.6	225.2	300.2	375.3	445.6	520.7	581.7	595.7	609.8
82.5°	79.7	84.4	112.6	164.2	215.8	267.4	342.4	394.0	450.3	455.0	464.4
85°	42.2	46.9	70.4	107.9	145.4	164.2	168.9	159.5	173.6	164.2	187.6
87.5°	14.1	14.1	23.5	18.8	18.8	23.5	28.1	28.1	37.5	37.5	37.5
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°	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7	6923.7
2.5°	6961.3	6961.3	6881.5	6731.4	6707.9	6647.0	6590.7	6586.0	6543.8	6506.2	6487.5
5°	7092.6	6947.2	6829.9	6693.9	6534.4	6459.3	6374.9	6281.1	6243.6	6281.1	6276.4
7.5°	7242.7	7120.7	6768.9	6515.6	6332.7	6257.6	6163.8	6065.3	6074.7	6074.7	6009.0
10°	7388.1	7223.9	6661.0	6337.4	6070.0	6013.7	5962.1	5999.6	6046.5	6055.9	6013.7
12.5°	7632.0	7261.5	6609.4	6159.1	5990.2	5868.3	5901.1	6004.3	6102.8	6074.7	6107.5
15°	7815.0	7294.3	6374.9	5976.2	5765.1	5821.4	5938.6	6009.0	6173.2	6154.4	6187.3
17.5°	7993.2	7313.1	6145.0	5732.2	5643.1	5797.9	5887.0	6088.8	6140.4	6252.9	6295.1
20°	8359.1	7350.6	5910.5	5582.1	5554.0	5732.2	5887.0	5980.9	6093.4	6192.0	6192.0
22.5°	8546.8	7331.8	5755.7	5385.1	5474.2	5586.8	5727.6	5887.0	5887.0	5980.9	5985.6
25°	8781.3	7256.8	5511.8	5291.3	5357.0	5464.9	5624.4	5568.1	5629.0	5629.0	5704.1
27.5°	9048.7	7097.3	5300.7	5122.4	5253.8	5371.0	5394.5	5357.0	5286.6	5277.2	5249.1
30°	9264.5	6900.3	5145.9	5066.1	5174.0	5239.7	5164.6	5084.9	4962.9	4953.6	4887.9
32.5°	9560.0	6656.3	4953.6	4925.4	5047.4	5052.1	5028.6	4906.7	4728.4	4653.3	4578.3
35°	10057.2	6515.6	4808.1	4850.4	4887.9	4873.8	4831.6	4700.3	4522.0	4489.2	4461.0
37.5°	10423.1	6412.4	4658.0	4709.6	4742.5	4761.2	4634.6	4489.2	4493.9	4428.2	4409.4
40°	10835.9	6346.7	4536.1	4559.5	4564.2	4625.2	4470.4	4400.0	4432.9	4390.7	4418.8
42.5°	11366.0	6365.5	4409.4	4390.7	4479.8	4456.3	4381.3	4287.5	4306.2	4179.6	4198.3
45°	11647.4	6492.2	4334.4	4249.9	4348.4	4343.7	4245.2	4156.1	4043.5	3799.6	3809.0
47.5°	11835.1	6525.0	4156.1	4099.8	4203.0	4264.0	4151.4	3945.0	3785.5	3612.0	3569.8
50°	12027.4	6586.0	4071.7	3954.4	3996.6	4142.0	4001.3	3804.3	3649.5	3494.7	3518.2
52.5°	12196.3	6703.3	3907.5	3733.9	3809.0	3968.5	3893.4	3654.2	3485.3	3358.7	3321.1
55°	12946.8	6965.9	3630.7	3405.6	3583.8	3785.5	3743.3	3452.5	3269.5	3203.9	3194.5
56°	13064.1	6975.3	3485.3	3293.0	3457.2	3724.6	3673.0	3363.4	3199.2	3096.0	3100.7
57.5°	13082.8	6862.7	3278.9	3189.8	3330.5	3635.4	3569.8	3293.0	3067.8	2974.0	2945.9
60°	11511.4	5357.0	3020.9	2964.6	3128.8	3363.4	3339.9	3100.7	2847.4	2739.5	2791.1
62.5°	7847.8	3926.3	2819.2	2809.8	2894.3	3124.1	3063.1	2847.4	2636.3	2565.9	2533.1
65°	4568.9	2978.7	2622.2	2584.7	2655.0	2777.0	2819.2	2594.1	2373.6	2326.7	2312.6
67.5°	2697.3	2462.7	2368.9	2307.9	2284.5	2359.5	2392.3	2261.0	2040.5	1974.9	2031.1
70°	2256.3	2190.6	2195.3	2092.1	2035.8	1984.2	1956.1	1838.8	1655.9	1571.4	1548.0
72.5°	1946.7	1918.6	1899.8	1806.0	1754.4	1637.1	1515.2	1397.9	1261.8	1191.5	1196.2
75°	1487.0	1477.6	1487.0	1440.1	1351.0	1257.2	1144.6	994.5	891.3	802.1	820.9
77.5°	886.6	914.7	928.8	910.0	872.5	788.1	717.7	619.2	520.7	450.3	440.9
80°	609.8	633.3	656.7	633.3	595.7	534.8	459.7	384.7	314.3	276.8	267.4
82.5°	464.4	487.9	501.9	478.5	431.6	365.9	314.3	262.7	206.4	168.9	159.5
85°	168.9	192.3	187.6	225.2	243.9	234.5	201.7	154.8	117.3	84.4	79.7
87.5°	46.9	42.2	46.9	46.9	46.9	42.2	37.5	37.5	37.5	23.5	18.8
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)