

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: P457173

Luminaire Tested: **GALN-SA8C-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37172 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

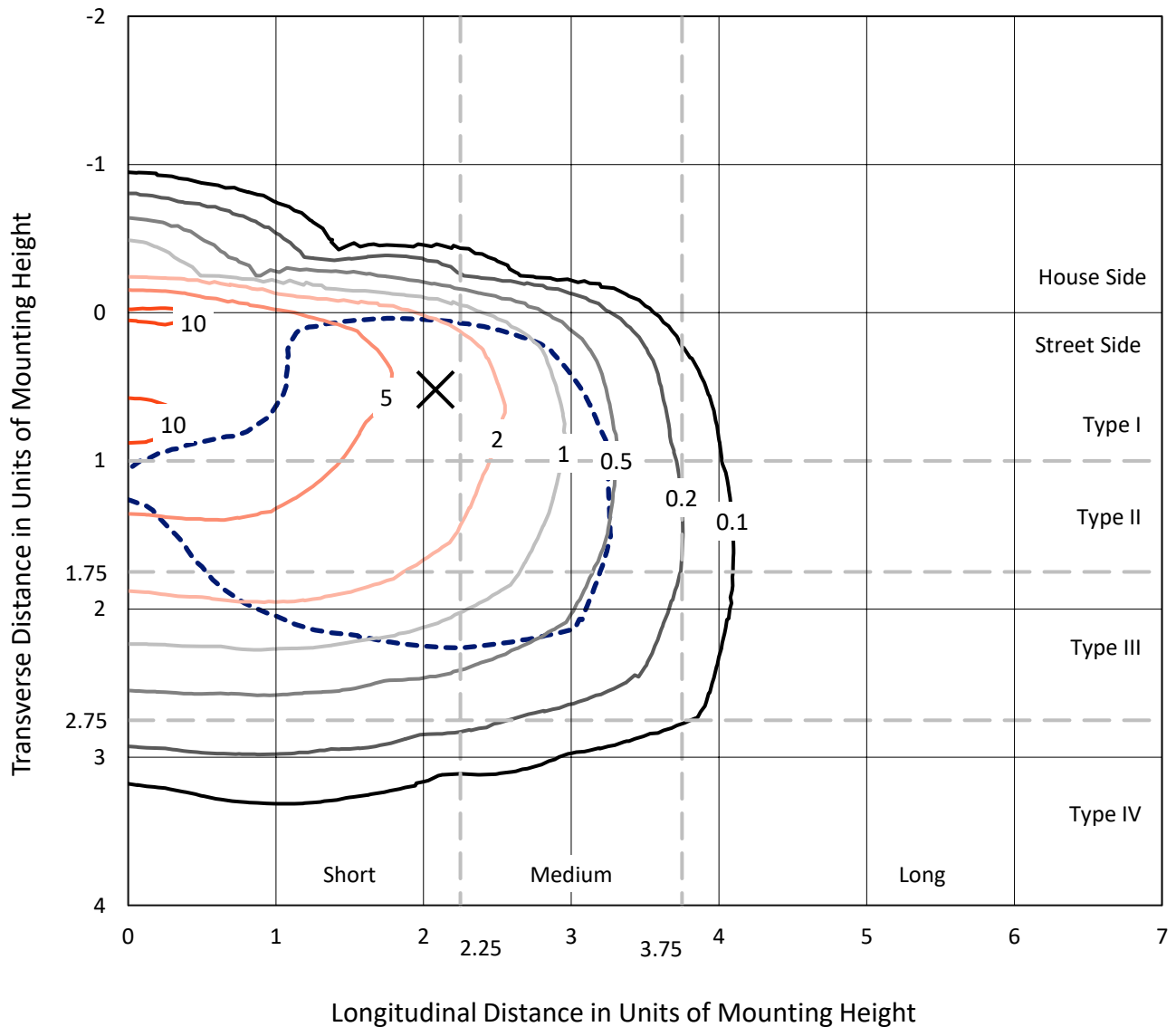
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

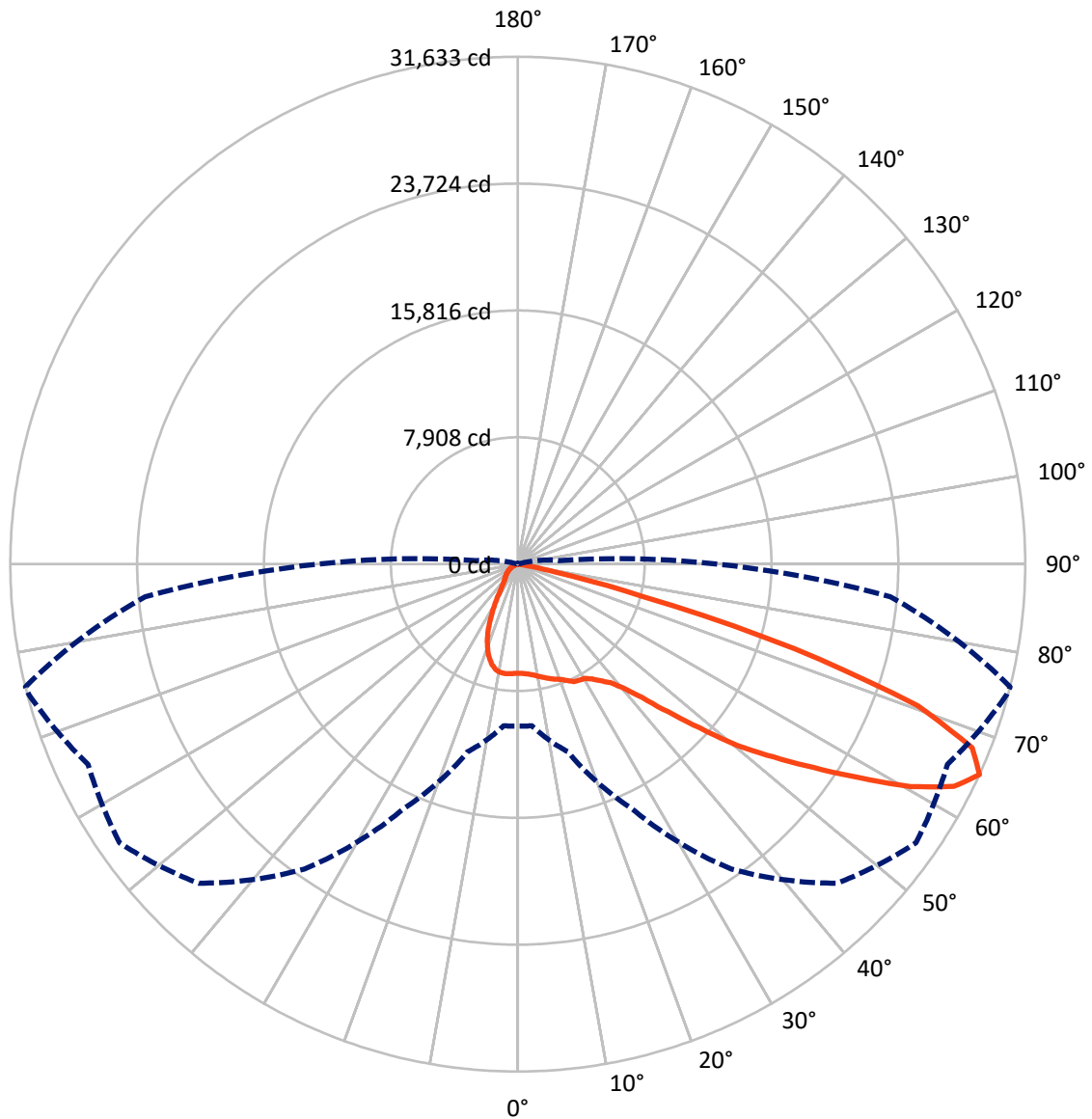
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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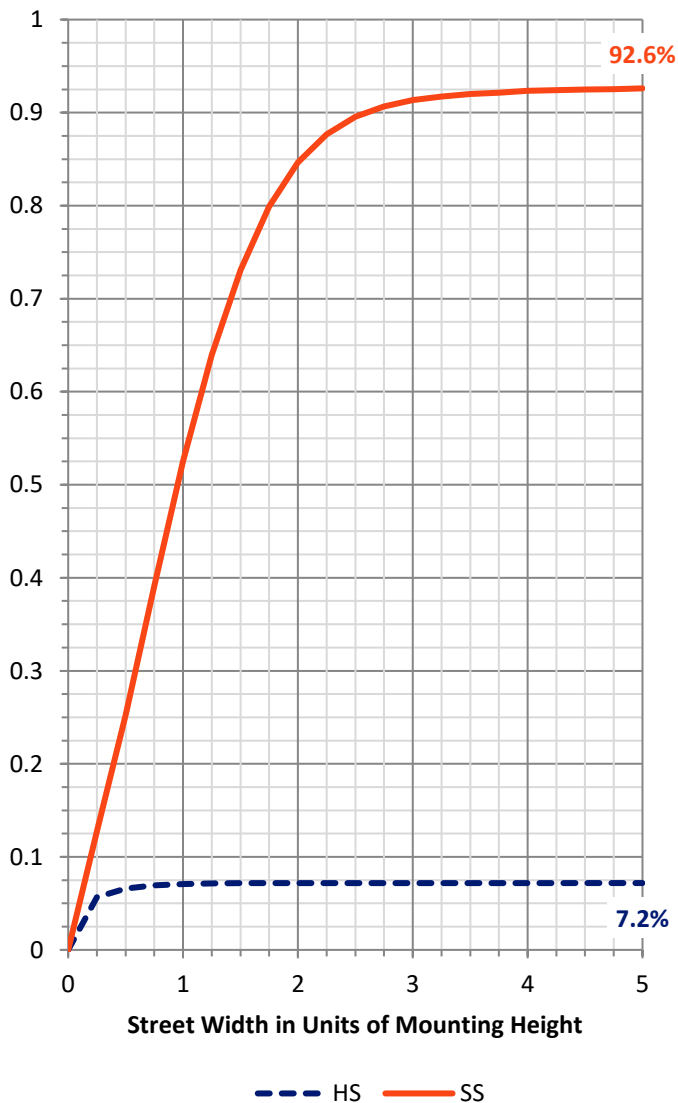
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2684.6	0.0	2684.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34487.4	0.0	34487.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	37172.0	0.0	37172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.1	1.5
10°-20°	1247.2	3.4
20°-30°	2009.8	5.4
30°-40°	3494.5	9.4
40°-50°	5774.5	15.5
50°-60°	8920.4	24.0
60°-70°	10893.1	29.3
70°-80°	4134.2	11.1
80°-90°	138.0	0.4
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°	37172.0	100.0
0°-180°	37172.0	100.0

Coefficient of Utilization

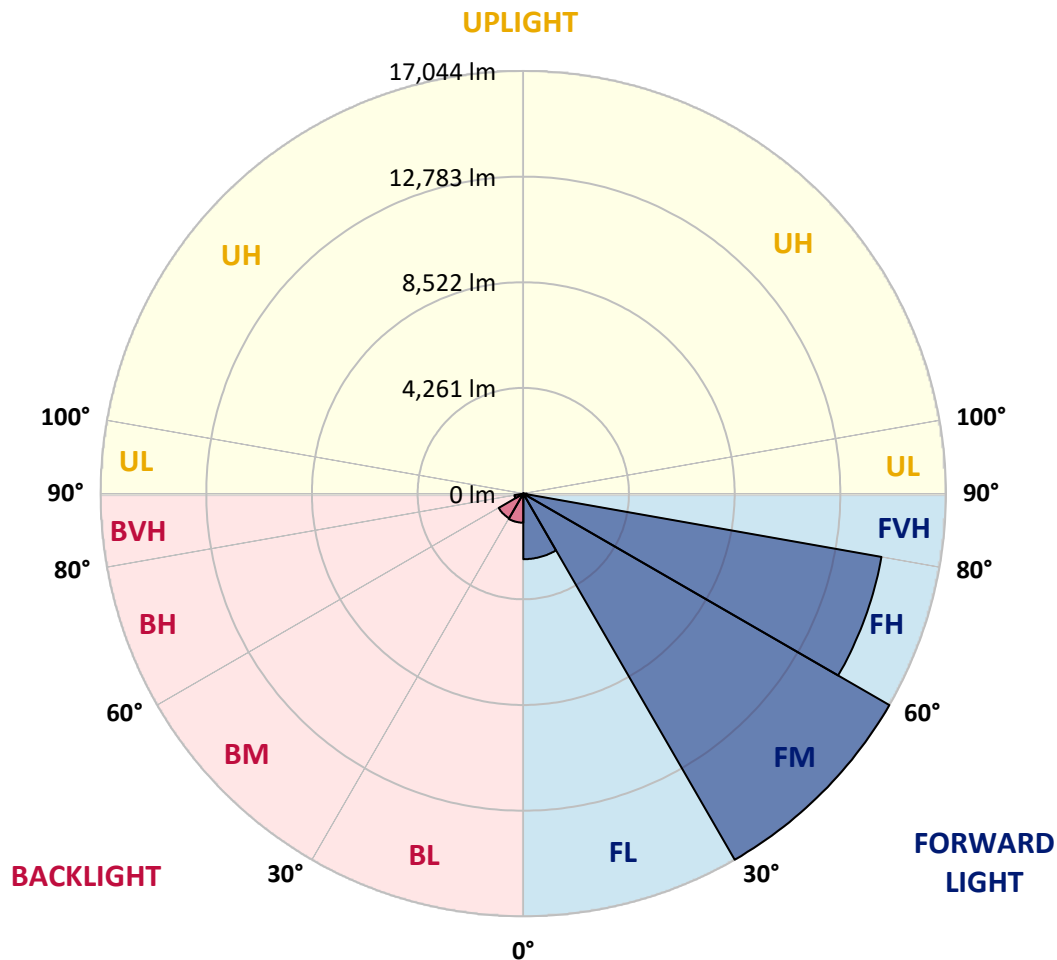


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2644.4	7.1			
FM (30°-60°)	17043.9	45.9			
FH (60°-80°)	14663.1	39.4			G5
FVH (80°-90°)	136.1	0.4			G2/225
BL (0°-30°)	1172.8	3.2	B3/2500		
BM (30°-60°)	1145.6	3.1	B2/2500		
BH (60°-80°)	364.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9
2.5°	6498.1	6500.8	6516.5	6555.9	6616.2	6666.1	6708.1	6776.3	6823.6	6828.8	6844.6
5°	6049.4	6017.9	6049.4	6151.7	6243.6	6382.7	6553.2	6723.8	6876.1	6886.6	6960.0
7.5°	5545.5	5571.7	5621.6	5726.5	5899.8	6112.3	6359.0	6663.5	6952.2	6978.4	7122.8
10°	5033.7	5091.4	5172.8	5332.9	5574.3	5849.9	6185.8	6621.5	7072.9	7109.6	7359.0
12.5°	4561.3	4587.5	4687.3	4902.5	5201.7	5590.1	6054.6	6597.9	7206.7	7251.4	7610.9
15°	4199.1	4233.2	4319.8	4514.1	4847.4	5346.0	5947.0	6590.0	7338.0	7400.9	7862.8
17.5°	4130.9	4151.9	4188.6	4319.8	4611.2	5151.8	5849.9	6587.4	7463.9	7540.0	8096.4
20°	4411.7	4393.3	4356.6	4343.5	4503.6	5002.2	5779.0	6608.4	7584.7	7671.3	8343.1
22.5°	5115.0	5138.7	4923.5	4668.9	4616.4	4978.6	5768.5	6708.1	7776.2	7878.6	8618.7
25°	6608.4	6427.3	6091.3	5482.5	5023.2	5122.9	5886.6	6944.3	7999.3	8112.2	8868.0
27.5°	8259.1	8204.0	7681.8	6679.2	5823.7	5427.4	6096.6	7125.4	8072.8	8188.3	9009.7
30°	9881.0	9946.7	9348.3	8240.8	6986.3	5991.6	6293.4	7193.6	8138.4	8259.1	9190.8
32.5°	11384.9	11463.6	10938.7	9841.7	8356.2	6967.9	6632.0	7458.7	8414.0	8537.3	9492.6
35°	12568.5	12579.0	12182.7	11308.7	9852.2	8154.2	7364.2	7923.2	8786.7	8931.0	9812.8
37.5°	13655.0	13639.3	13174.7	12421.5	11098.8	9332.5	8285.4	8458.6	9211.8	9361.4	10274.7
40°	14460.7	14471.2	14321.6	13613.0	12261.4	10421.7	9015.0	8959.9	9925.7	10159.2	10946.6
42.5°	14998.7	15095.8	15169.3	14809.8	13723.2	11762.8	10135.6	10033.3	11164.4	11358.6	11896.6
45°	15434.4	15607.6	15975.0	15956.6	15127.3	13408.3	11673.5	11463.6	12920.2	13127.5	13106.5
47.5°	15751.9	15927.8	16536.6	16904.1	16447.4	15004.0	13607.8	13426.7	15017.1	15242.8	14442.3
50°	15914.7	16124.6	16901.4	17612.7	17478.8	16541.9	15812.3	15822.8	17549.7	17767.5	15990.8
52.5°	15534.1	15807.1	17095.7	18376.4	18636.2	18014.2	17877.7	18224.2	19804.1	19990.4	17389.6
55°	14319.0	14662.8	16830.6	19027.2	19977.3	19751.6	20224.0	20751.5	22268.4	22389.2	18825.2
57.5°	13550.0	13914.8	16048.5	19581.0	21588.7	21935.1	22683.1	23068.9	24811.5	25118.6	20473.3
60°	12901.8	13187.9	15405.5	19699.1	23226.4	24606.8	25333.8	25732.7	27950.4	28149.8	22286.8
62.5°	11823.1	12151.2	14319.0	18875.0	24050.4	26745.8	28252.2	28073.7	30378.0	30517.1	23399.6
65°	10088.4	10117.2	12114.5	16804.3	23200.1	28134.1	30301.9	29553.9	31538.0	31632.5	23313.0
67.5°	7529.5	7807.7	9319.4	13208.8	19596.8	26947.8	30965.9	29593.3	30805.8	30543.3	21462.7
70°	4850.0	5062.6	6317.0	9159.3	14130.0	22488.9	28764.0	27564.6	27037.1	26454.4	17568.1
72.5°	2238.7	2511.6	3753.0	5233.1	8379.9	16019.6	23349.7	22394.4	19460.3	18022.1	11167.0
75°	976.3	1044.5	1852.9	2760.9	3928.8	8471.7	15395.0	13901.7	8789.3	8028.2	4469.4
77.5°	595.7	640.4	971.0	1480.2	1543.2	3228.1	8293.3	6065.1	2716.3	2396.1	1212.5
80°	404.2	454.0	706.0	774.2	527.5	900.2	3112.6	1619.3	548.5	524.9	259.8
82.5°	196.8	249.3	522.3	433.0	228.3	288.7	905.4	346.4	160.1	149.6	91.9
85°	28.9	49.9	293.9	283.4	102.4	68.2	160.1	86.6	55.1	52.5	42.0
87.5°	0.0	0.0	99.7	44.6	10.5	10.5	18.4	18.4	21.0	18.4	21.0
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°	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9	6799.9
2.5°	6852.4	6865.6	6815.7	6744.8	6668.7	6592.6	6485.0	6387.9	6330.2	6364.3	6280.3
5°	6975.8	6965.3	6834.1	6618.9	6332.8	5989.0	5647.8	5356.5	5262.0	5120.3	5104.6
7.5°	7146.4	7117.5	6839.3	6345.9	5700.3	5054.7	4424.8	4007.5	3768.7	3566.6	3571.9
10°	7385.2	7301.2	6778.9	5865.6	4802.7	3829.1	3026.0	2474.9	2236.0	2159.9	2099.6
12.5°	7631.9	7469.2	6611.0	5217.4	3739.8	2616.6	1839.7	1503.8	1356.8	1309.6	1304.4
15°	7852.3	7595.2	6317.0	4437.9	2718.9	1671.8	1254.5	1144.3	1125.9	1128.5	1125.9
17.5°	8070.2	7694.9	5910.3	3611.2	1847.6	1199.4	1078.6	1052.4	1060.3	1070.8	1068.2
20°	8251.3	7715.9	5390.6	2755.7	1307.0	1052.4	1013.0	1007.8	1015.7	1023.5	1023.5
22.5°	8448.1	7731.6	4773.9	1908.0	1068.2	978.9	957.9	957.9	968.4	978.9	981.5
25°	8595.1	7645.0	4036.4	1370.0	942.2	908.1	897.6	900.2	910.7	915.9	913.3
27.5°	8618.7	7400.9	3254.3	1049.8	855.6	821.5	811.0	821.5	808.3	816.2	811.0
30°	8639.7	7091.3	2461.7	884.4	776.8	724.3	708.6	692.9	682.4	669.2	666.6
32.5°	8705.3	6726.5	1797.7	795.2	703.4	645.6	608.9	564.3	530.1	519.6	517.0
35°	8734.2	6288.2	1320.1	724.3	637.7	574.8	509.1	446.2	396.3	377.9	391.0
37.5°	8844.4	5863.0	1023.5	671.9	580.0	501.3	417.3	338.6	291.3	280.8	286.1
40°	9070.1	5401.1	858.2	627.2	530.1	433.0	330.7	254.6	223.1	212.6	210.0
42.5°	9432.3	4941.8	763.7	585.3	480.3	364.8	259.8	199.5	173.2	165.3	165.3
45°	9873.2	4500.9	698.1	540.6	427.8	293.9	204.7	160.1	144.3	139.1	139.1
47.5°	10453.2	4115.1	643.0	496.0	370.0	233.6	165.3	139.1	128.6	131.2	133.8
50°	11041.1	3829.1	582.6	446.2	304.4	191.6	141.7	123.3	120.7	123.3	123.3
52.5°	11484.6	3661.1	501.3	377.9	238.8	160.1	126.0	115.5	112.9	107.6	107.6
55°	12083.0	3624.4	398.9	307.1	189.0	133.8	112.9	105.0	97.1	91.9	89.2
57.5°	12851.9	3666.4	307.1	238.8	147.0	110.2	99.7	86.6	76.1	65.6	65.6
60°	13329.6	3571.9	238.8	183.7	107.6	89.2	76.1	63.0	49.9	42.0	39.4
62.5°	13177.4	3173.0	189.0	136.5	76.1	65.6	49.9	42.0	28.9	21.0	18.4
65°	12392.6	2561.5	152.2	94.5	55.1	39.4	26.2	26.2	13.1	2.6	0.0
67.5°	10846.8	1897.5	120.7	63.0	31.5	18.4	13.1	7.9	0.0	0.0	0.0
70°	8828.6	1370.0	94.5	39.4	18.4	13.1	5.2	2.6	0.0	0.0	0.0
72.5°	5605.8	784.7	73.5	23.6	13.1	5.2	0.0	0.0	0.0	0.0	0.0
75°	2167.8	307.1	49.9	15.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	614.1	144.3	28.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.1	63.0	15.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.1	26.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.6	10.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)