

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: P269525

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42752.4 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

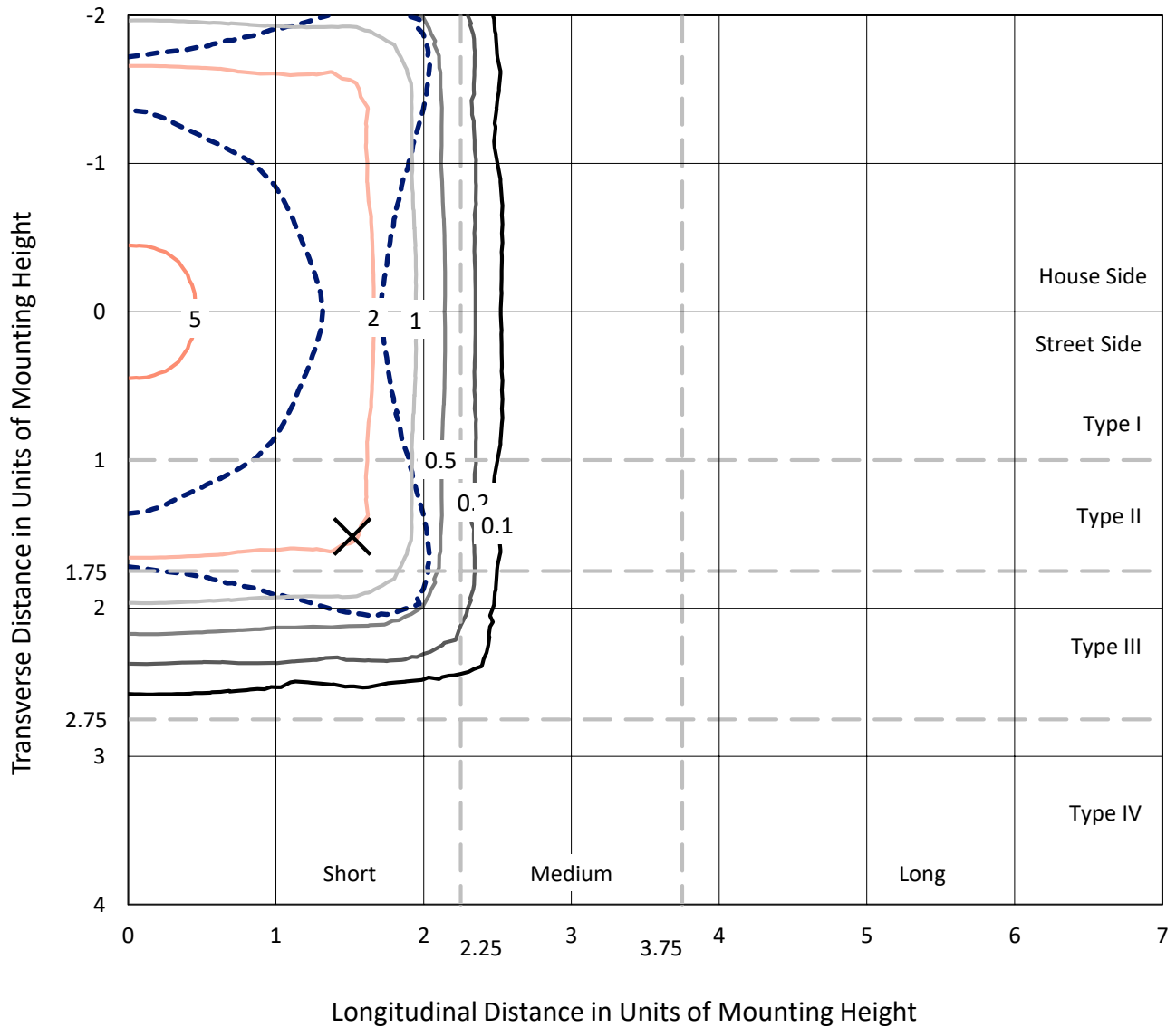
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

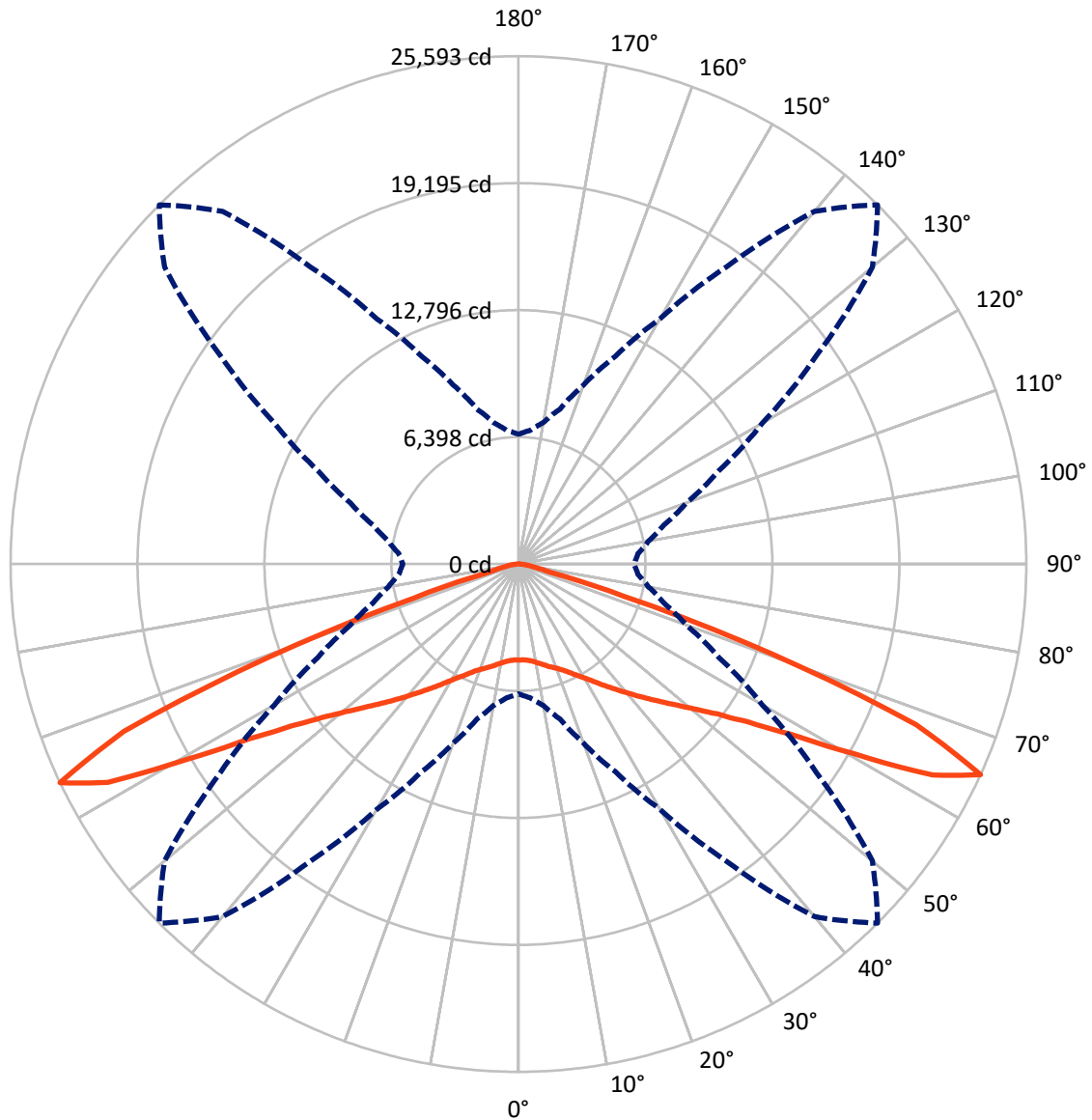
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21376.2	0.0	21376.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21376.2	0.0	21376.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	42752.4	0.0	42752.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.5	1.1
10°-20°	1512.2	3.5
20°-30°	2827.5	6.6
30°-40°	4782.0	11.2
40°-50°	7819.2	18.3
50°-60°	12433.7	29.1
60°-70°	11239.2	26.3
70°-80°	1422.4	3.3
80°-90°	244.7	0.6
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°	42752.4	100.0
0°-180°	42752.4	100.0

Coefficient of Utilization



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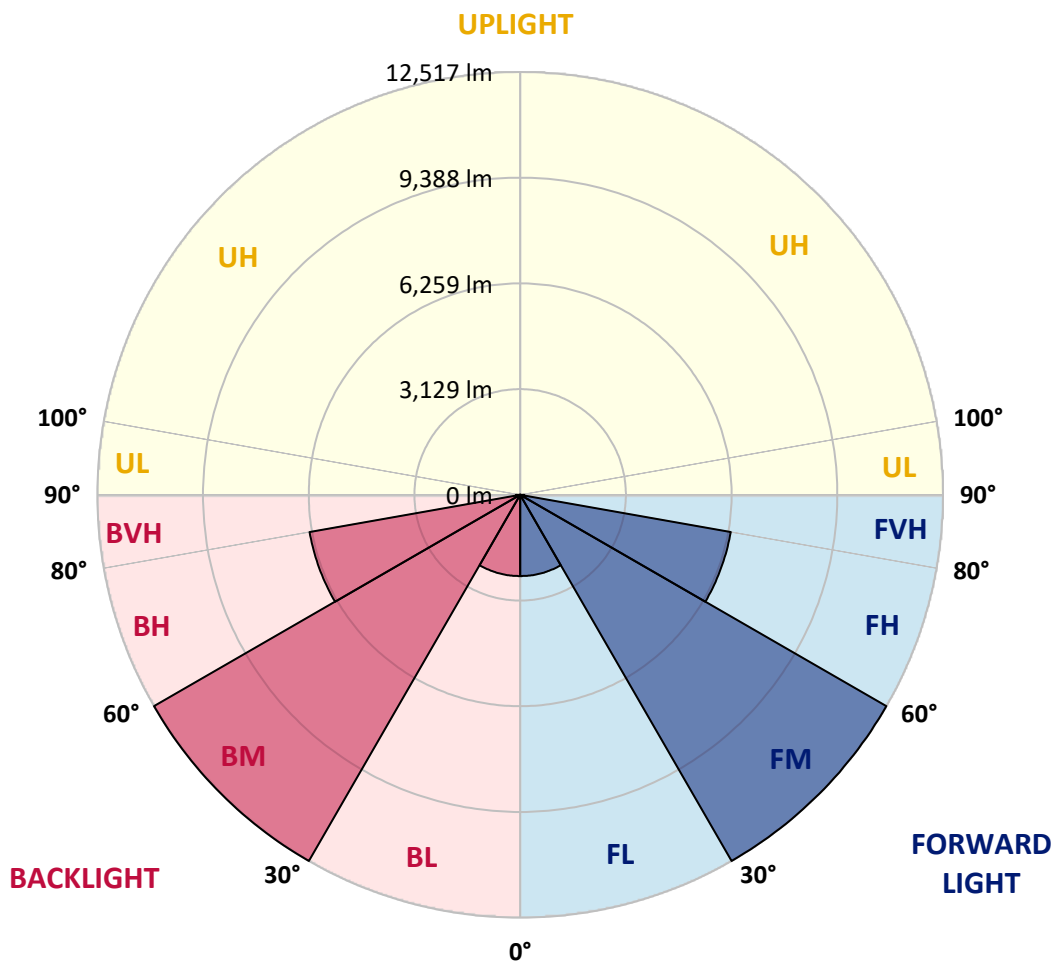
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2405.6	5.6			
FM	(30°-60°)	12517.5	29.3			
FH	(60°-80°)	6330.8	14.8			G3/7500
FVH	(80°-90°)	122.3	0.3			G2/225
BL	(0°-30°)	2405.6	5.6	B3/2500		
BM	(30°-60°)	12517.5	29.3	B5		
BH	(60°-80°)	6330.8	14.8	B5		G3/7500
BVH	(80°-90°)	122.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5
2.5°	4841.4	4845.5	4849.5	4845.5	4849.5	4843.4	4839.4	4845.5	4839.4	4833.4	4837.5
5°	4883.5	4885.5	4885.5	4879.6	4885.5	4881.5	4875.6	4883.5	4877.4	4871.5	4875.6
7.5°	4953.6	4961.6	4955.6	4949.7	4953.6	4949.7	4945.6	4947.5	4945.6	4939.6	4941.5
10°	5047.7	5053.7	5049.7	5047.7	5051.7	5049.7	5045.7	5043.7	5045.7	5039.8	5039.8
12.5°	5161.8	5159.9	5157.8	5159.9	5165.9	5165.9	5163.7	5165.9	5169.8	5171.8	5167.8
15°	5273.9	5277.9	5277.9	5277.9	5289.9	5300.0	5306.0	5310.1	5318.0	5320.0	5311.9
17.5°	5414.2	5414.2	5412.1	5414.2	5426.1	5442.1	5448.1	5456.1	5464.2	5470.1	5460.2
20°	5570.3	5574.3	5574.3	5578.2	5594.4	5612.3	5612.3	5616.4	5612.3	5616.4	5610.4
22.5°	5760.6	5772.5	5772.5	5774.6	5790.6	5812.6	5806.6	5812.6	5802.5	5810.5	5802.5
25°	6008.8	6026.8	6022.7	6022.7	6034.9	6048.7	6050.9	6062.8	6060.9	6070.8	6064.8
27.5°	6289.0	6317.2	6325.1	6323.1	6331.2	6345.2	6349.2	6363.1	6355.1	6363.1	6359.2
30°	6625.4	6637.4	6653.4	6659.6	6669.6	6683.5	6683.5	6685.5	6675.6	6687.5	6693.5
32.5°	6973.8	6995.9	7011.9	7047.9	7066.0	7075.9	7074.0	7077.9	7068.0	7083.9	7096.0
35°	7434.4	7450.5	7476.5	7504.5	7528.4	7526.4	7520.5	7522.4	7522.4	7536.5	7548.5
37.5°	7988.9	7992.9	8027.1	8067.0	8079.0	8067.0	8031.0	8023.0	8005.1	8023.0	8043.1
40°	8575.7	8589.7	8657.8	8683.7	8689.8	8667.7	8615.7	8585.7	8545.7	8567.7	8595.7
42.5°	9190.4	9218.3	9280.5	9326.6	9346.5	9332.5	9260.4	9214.4	9162.4	9174.3	9202.3
45°	9871.1	9905.3	9993.3	10037.3	10075.4	10053.3	9983.3	9913.2	9831.1	9837.1	9881.1
47.5°	10632.0	10666.0	10780.1	10854.2	10874.3	10870.2	10792.1	10696.1	10583.9	10579.9	10618.0
50°	11484.9	11519.0	11661.2	11775.3	11833.4	11827.4	11735.2	11599.0	11462.9	11464.9	11512.9
52.5°	12317.9	12359.9	12508.1	12704.3	12818.5	12900.5	12844.4	12716.3	12550.1	12554.2	12598.2
55°	13098.7	13168.9	13339.0	13605.3	13817.5	14047.9	14113.9	14109.9	14009.7	14037.9	14081.9
57.5°	13477.2	13581.4	13843.6	14264.0	14696.6	15165.0	15561.6	15857.9	15984.0	16174.3	16130.1
60°	12760.3	12926.6	13313.1	13931.8	14786.7	15763.7	16810.9	17834.1	18707.1	19365.8	18987.5
62.5°	10447.7	10664.0	11132.5	11925.4	13218.9	14782.7	16786.9	19205.7	21840.6	23430.4	22295.2
65°	6537.3	6761.6	7238.2	8087.1	9600.8	11544.9	14264.0	18272.7	23196.2	25592.8	23282.2
67.5°	2548.9	2671.0	2929.4	3471.9	4609.3	6339.2	9068.2	13617.3	19505.9	21606.4	19143.6
70°	1277.4	1289.4	1337.4	1437.6	1681.8	2184.5	3323.8	6313.1	11186.7	13511.2	10784.2
72.5°	923.1	925.1	949.1	993.2	1071.1	1183.3	1399.6	1932.2	3638.0	5560.2	3409.8
75°	706.7	714.8	728.9	752.9	794.9	851.0	929.0	1113.3	1379.5	1599.8	1345.5
77.5°	544.6	560.6	570.7	592.7	618.8	656.8	678.8	748.8	870.9	917.0	903.1
80°	414.5	428.5	450.5	468.6	486.5	504.6	496.6	528.7	592.7	630.7	610.7
82.5°	264.3	280.4	344.4	360.4	368.5	380.4	366.4	368.5	396.4	420.4	396.4
85°	170.1	180.2	218.3	238.3	240.2	248.3	242.3	228.3	228.3	208.2	234.3
87.5°	78.2	80.0	98.2	116.2	120.2	108.2	106.1	102.0	82.0	78.2	84.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5	4837.5
2.5°	4835.4	4839.4	4841.4	4847.4	4849.5	4849.5	4851.4	4855.5
5°	4873.5	4879.6	4881.5	4889.6	4891.5	4889.6	4893.4	4895.6
7.5°	4941.5	4951.5	4955.6	4963.6	4957.6	4965.7	4967.5	4967.5
10°	5041.6	5051.7	5053.7	5061.7	5057.6	5061.7	5061.7	5057.6
12.5°	5173.9	5175.9	5169.8	5175.9	5167.8	5171.8	5165.9	5161.8
15°	5320.0	5314.1	5300.0	5300.0	5288.0	5289.9	5288.0	5285.9
17.5°	5462.1	5450.1	5440.1	5436.2	5426.1	5424.1	5418.0	5418.0
20°	5618.3	5612.3	5606.3	5598.2	5588.3	5578.2	5576.3	5580.4
22.5°	5806.6	5804.6	5804.6	5800.5	5786.5	5776.6	5770.5	5770.5
25°	6058.8	6040.8	6040.8	6038.8	6032.7	6026.8	6014.8	6020.8
27.5°	6343.1	6333.1	6341.1	6339.2	6333.1	6333.1	6325.1	6325.1
30°	6693.5	6689.6	6701.5	6691.6	6671.5	6669.6	6661.6	6651.5
32.5°	7098.0	7093.9	7112.1	7100.1	7068.0	7050.0	7033.9	7026.0
35°	7548.5	7550.6	7572.5	7564.5	7528.4	7516.5	7488.5	7484.5
37.5°	8041.1	8073.1	8111.2	8119.2	8089.1	8081.2	8051.1	8035.1
40°	8619.7	8661.7	8719.8	8733.9	8701.8	8695.9	8653.7	8631.8
42.5°	9236.5	9308.4	9380.6	9392.6	9360.6	9328.4	9288.5	9272.5
45°	9925.3	10011.3	10105.5	10129.4	10081.4	10043.3	9991.3	9991.3
47.5°	10698.0	10806.3	10912.3	10978.4	10934.3	10894.3	10832.2	10792.1
50°	11611.1	11759.3	11897.4	11965.5	11895.4	11819.3	11711.3	11675.1
52.5°	12756.4	12916.5	13036.7	13000.6	12892.6	12786.5	12668.3	12620.2
55°	14218.1	14272.1	14272.1	14135.9	13919.6	13741.6	13555.2	13493.3
57.5°	16046.1	15837.8	15517.5	15111.0	14600.4	14155.9	13855.5	13713.4
60°	18194.5	17193.4	16062.1	14950.9	14037.9	13284.9	12838.4	12634.2
62.5°	19626.1	17007.3	14740.6	12956.7	11643.1	10736.2	10119.3	9879.1
65°	18342.8	14184.0	11148.5	9014.1	7582.6	6659.6	6048.7	5824.6
67.5°	13435.1	8888.0	5936.7	4254.8	3117.5	2486.8	2236.5	2132.3
70°	6030.9	3129.5	1918.2	1497.7	1291.5	1185.4	1139.3	1123.3
72.5°	1818.1	1315.5	1109.2	1001.2	919.1	867.0	829.0	825.0
75°	1097.2	913.0	810.9	746.9	694.7	652.8	632.8	626.7
77.5°	766.9	670.8	622.7	576.6	536.6	504.6	486.5	472.5
80°	538.7	492.5	470.5	444.5	418.5	388.4	362.3	350.3
82.5°	360.4	350.3	350.3	334.3	312.3	284.4	232.2	220.3
85°	232.2	230.2	234.3	228.3	212.2	182.1	150.1	142.1
87.5°	108.2	110.1	122.1	120.2	116.2	96.1	76.0	72.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)