

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: P193398

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193398
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-10-LED-E1-5NQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 49592 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

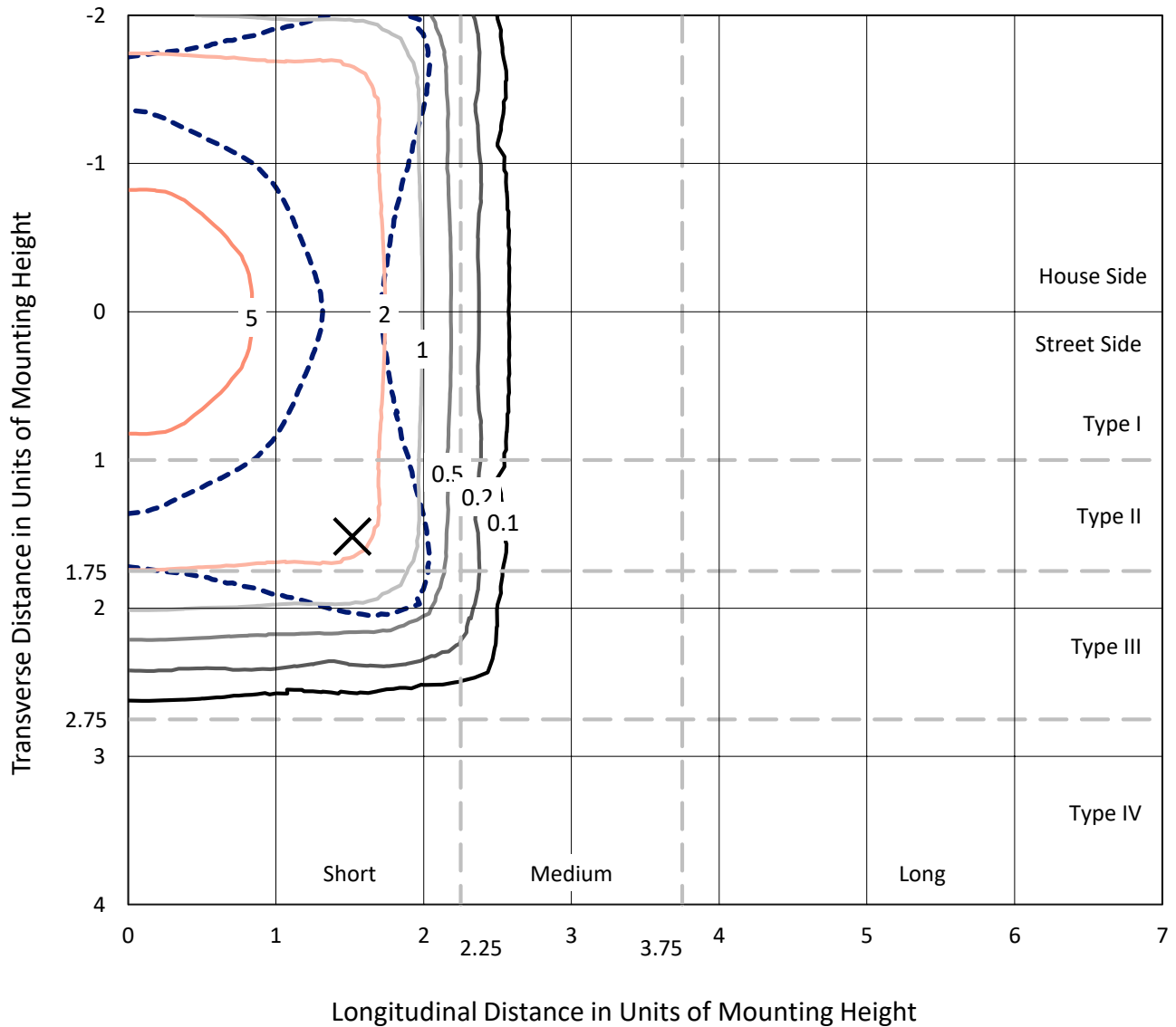
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

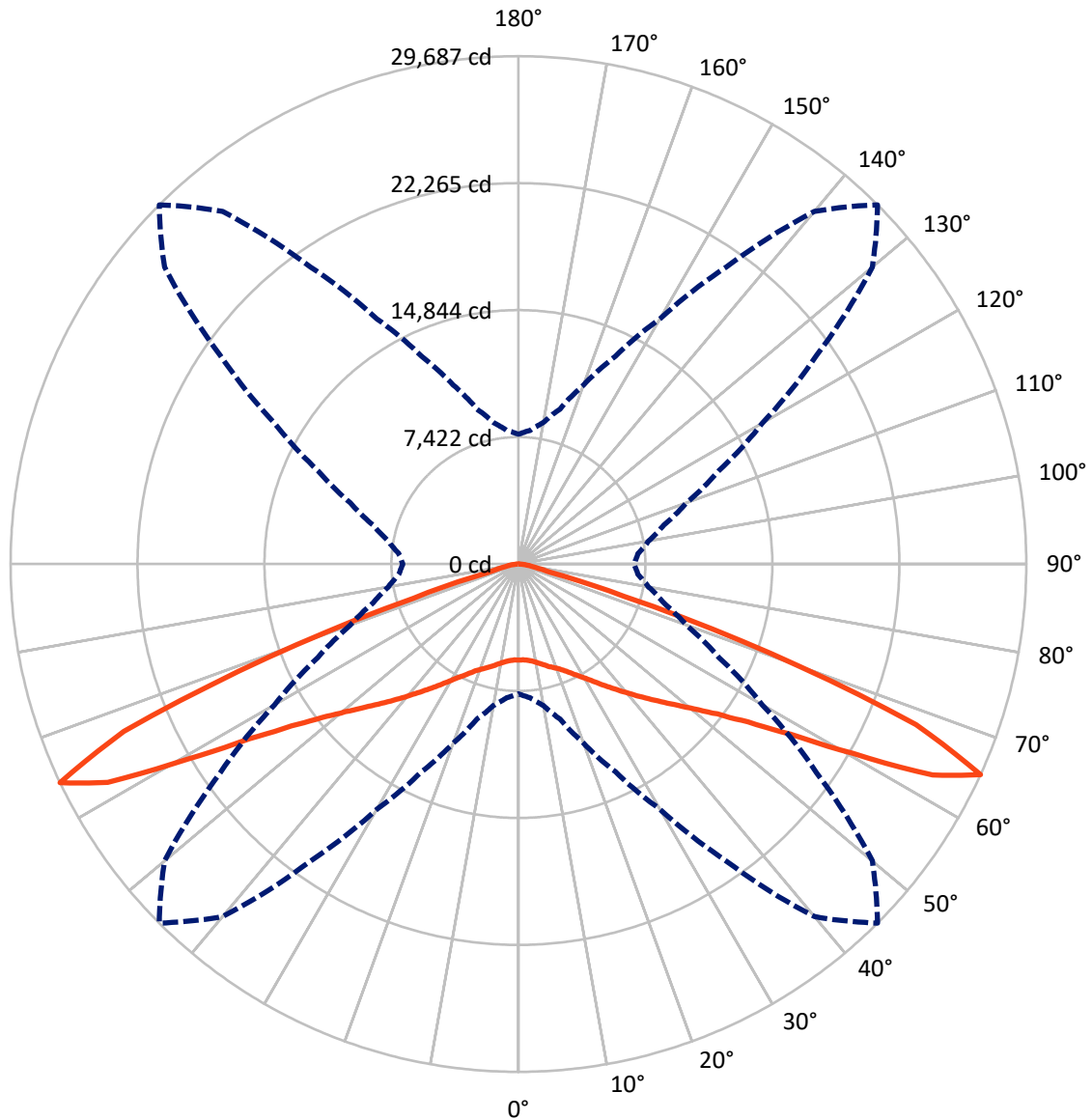
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	24796.0	0.0	24796.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24796.0	0.0	24796.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49592.0	0.0	49592.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.9	1.1
10°-20°	1754.1	3.5
20°-30°	3279.8	6.6
30°-40°	5547.1	11.2
40°-50°	9070.1	18.3
50°-60°	14422.9	29.1
60°-70°	13037.3	26.3
70°-80°	1649.9	3.3
80°-90°	283.8	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°	49592.0	100.0
0°-180°	49592.0	100.0



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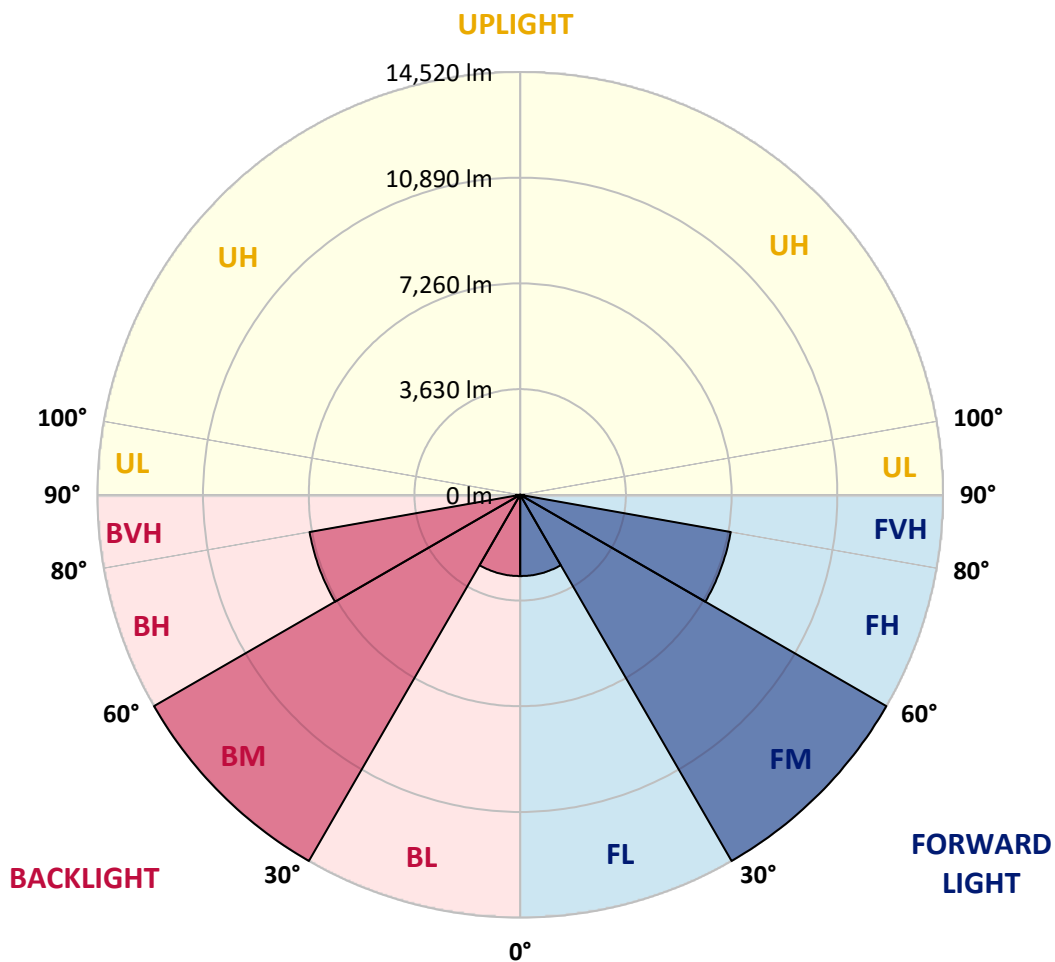
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2790.4	5.6			
FM	(30°-60°)	14520.0	29.3			
FH	(60°-80°)	7343.6	14.8			G3/7500
FVH	(80°-90°)	141.9	0.3			G2/225
BL	(0°-30°)	2790.4	5.6	B4/5000		
BM	(30°-60°)	14520.0	29.3	B5		
BH	(60°-80°)	7343.6	14.8	B5		G3/7500
BVH	(80°-90°)	141.9	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°	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4
2.5°	5616.0	5620.7	5625.3	5620.7	5625.3	5618.3	5613.7	5620.7	5613.7	5606.7	5611.4
5°	5664.8	5667.1	5667.1	5660.1	5667.1	5662.5	5655.5	5664.8	5657.8	5650.8	5655.5
7.5°	5746.1	5755.4	5748.4	5741.4	5746.1	5741.4	5736.8	5739.1	5736.8	5729.8	5732.1
10°	5855.2	5862.2	5857.6	5855.2	5859.9	5857.6	5852.9	5850.6	5852.9	5845.9	5845.9
12.5°	5987.6	5985.3	5983.0	5985.3	5992.3	5992.3	5989.9	5992.3	5996.9	5999.2	5994.6
15°	6117.7	6122.3	6122.3	6122.3	6136.3	6147.9	6154.8	6159.5	6168.8	6171.1	6161.8
17.5°	6280.3	6280.3	6277.9	6280.3	6294.2	6312.8	6319.7	6329.0	6338.3	6345.3	6333.7
20°	6461.4	6466.1	6466.1	6470.7	6489.3	6510.2	6510.2	6514.8	6510.2	6514.8	6507.9
22.5°	6682.1	6696.0	6696.0	6698.3	6716.9	6742.5	6735.5	6742.5	6730.8	6740.1	6730.8
25°	6970.1	6991.0	6986.3	6986.3	7000.3	7016.5	7018.8	7032.8	7030.5	7042.1	7035.1
27.5°	7295.2	7327.8	7337.0	7334.7	7344.0	7360.3	7364.9	7381.2	7371.9	7381.2	7376.5
30°	7685.4	7699.4	7717.9	7724.9	7736.5	7752.8	7752.8	7755.1	7743.5	7757.4	7764.4
32.5°	8089.6	8115.1	8133.7	8175.5	8196.4	8208.0	8205.7	8210.3	8198.7	8217.3	8231.2
35°	8623.8	8642.3	8672.5	8705.0	8732.9	8730.6	8723.6	8725.9	8725.9	8742.2	8756.1
37.5°	9267.1	9271.8	9311.2	9357.7	9371.6	9357.7	9315.9	9306.6	9285.7	9306.6	9329.8
40°	9947.6	9963.9	10042.9	10073.0	10080.0	10054.5	9994.1	9959.2	9912.8	9938.3	9970.9
42.5°	10660.7	10693.2	10765.2	10818.6	10841.8	10825.6	10741.9	10688.5	10628.1	10642.1	10674.6
45°	11450.3	11489.8	11592.0	11643.1	11687.2	11661.7	11580.4	11499.1	11403.9	11410.9	11461.9
47.5°	12332.9	12372.4	12504.8	12590.7	12614.0	12609.3	12518.7	12407.2	12277.2	12272.5	12316.7
50°	13322.3	13361.8	13526.7	13659.1	13726.5	13719.5	13612.7	13454.7	13296.8	13299.1	13354.9
52.5°	14288.5	14337.3	14509.2	14736.8	14869.2	14964.4	14899.4	14750.7	14558.0	14562.6	14613.7
55°	15194.3	15275.6	15473.1	15782.0	16028.1	16295.2	16371.9	16367.2	16251.1	16283.6	16334.7
57.5°	15633.3	15754.1	16058.3	16546.1	17047.8	17591.2	18051.1	18394.9	18541.2	18761.8	18710.7
60°	14801.8	14994.6	15442.9	16160.5	17152.3	18285.7	19500.4	20687.2	21699.9	22464.0	22025.1
62.5°	12119.2	12370.1	12913.6	13833.3	15333.7	17147.6	19472.5	22278.2	25334.7	27178.9	25862.0
65°	7583.2	7843.4	8396.1	9380.9	11136.8	13392.0	16546.1	21195.9	26907.1	29687.3	27007.0
67.5°	2956.6	3098.3	3397.9	4027.4	5346.6	7353.3	10519.0	15795.9	22626.6	25063.0	22206.2
70°	1481.8	1495.7	1551.5	1667.6	1951.0	2533.9	3855.5	7323.1	12976.3	15672.8	12509.4
72.5°	1070.7	1073.0	1100.9	1152.0	1242.6	1372.6	1623.5	2241.3	4220.1	6449.8	3955.4
75°	819.9	829.2	845.4	873.3	922.1	987.1	1077.7	1291.4	1600.3	1855.7	1560.8
77.5°	631.7	650.3	661.9	687.5	717.7	761.8	787.4	868.6	1010.3	1063.7	1047.5
80°	480.8	497.0	522.6	543.5	564.4	585.3	576.0	613.2	687.5	731.6	708.4
82.5°	306.6	325.2	399.5	418.1	427.4	441.3	425.0	427.4	459.9	487.7	459.9
85°	197.4	209.0	253.2	276.4	278.7	288.0	281.0	264.8	264.8	241.5	271.7
87.5°	90.6	92.9	113.8	134.7	139.4	125.4	123.1	118.5	95.2	90.6	97.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4	5611.4
2.5°	5609.0	5613.7	5616.0	5623.0	5625.3	5625.3	5627.6	5632.3
5°	5653.2	5660.1	5662.5	5671.7	5674.1	5671.7	5676.4	5678.7
7.5°	5732.1	5743.7	5748.4	5757.7	5750.7	5760.0	5762.3	5762.3
10°	5848.3	5859.9	5862.2	5871.5	5866.8	5871.5	5871.5	5866.8
12.5°	6001.6	6003.9	5996.9	6003.9	5994.6	5999.2	5992.3	5987.6
15°	6171.1	6164.1	6147.9	6147.9	6133.9	6136.3	6133.9	6131.6
17.5°	6336.0	6322.1	6310.5	6305.8	6294.2	6291.9	6284.9	6284.9
20°	6517.2	6510.2	6503.2	6493.9	6482.3	6470.7	6468.4	6473.0
22.5°	6735.5	6733.2	6733.2	6728.5	6712.3	6700.7	6693.7	6693.7
25°	7028.1	7007.2	7007.2	7004.9	6997.9	6991.0	6977.0	6984.0
27.5°	7357.9	7346.3	7355.6	7353.3	7346.3	7346.3	7337.0	7337.0
30°	7764.4	7759.8	7773.7	7762.1	7738.8	7736.5	7727.2	7715.6
32.5°	8233.6	8228.9	8249.8	8235.9	8198.7	8177.8	8159.2	8149.9
35°	8756.1	8758.5	8784.0	8774.7	8732.9	8719.0	8686.5	8681.8
37.5°	9327.5	9364.7	9408.8	9418.1	9383.2	9373.9	9339.1	9320.5
40°	9998.7	10047.5	10114.9	10131.1	10093.9	10087.0	10038.2	10012.7
42.5°	10714.1	10797.7	10881.3	10895.2	10858.1	10820.9	10774.5	10755.9
45°	11513.0	11612.9	11722.1	11749.9	11694.2	11650.1	11589.7	11589.7
47.5°	12409.6	12535.0	12658.1	12734.7	12683.6	12637.2	12565.2	12518.7
50°	13468.7	13640.5	13800.8	13879.8	13798.5	13710.2	13584.8	13543.0
52.5°	14797.2	14983.0	15122.3	15080.5	14955.1	14832.0	14695.0	14639.2
55°	16492.7	16555.4	16555.4	16397.4	16146.6	15939.9	15723.9	15651.9
57.5°	18613.2	18371.6	18000.0	17528.5	16936.3	16420.7	16072.3	15907.4
60°	21105.3	19944.0	18631.8	17342.7	16283.6	15410.3	14892.4	14655.5
62.5°	22766.0	19728.0	17098.9	15029.4	13505.8	12453.7	11738.3	11459.6
65°	21277.2	16453.2	12932.1	10456.3	8795.6	7724.9	7016.5	6756.4
67.5°	15584.5	10309.9	6886.5	4935.5	3616.3	2884.6	2594.3	2473.6
70°	6995.6	3630.2	2225.0	1737.3	1498.1	1375.0	1321.5	1303.0
72.5°	2108.9	1525.9	1286.7	1161.3	1066.1	1005.7	961.5	956.9
75°	1272.8	1059.1	940.6	866.3	805.9	757.2	733.9	727.0
77.5°	889.5	778.1	722.3	668.9	622.5	585.3	564.4	548.1
80°	624.8	571.4	545.8	515.6	485.4	450.6	420.4	406.5
82.5°	418.1	406.5	406.5	387.9	362.3	329.8	269.4	255.5
85°	269.4	267.1	271.7	264.8	246.2	211.4	174.2	164.9
87.5°	125.4	127.7	141.7	139.4	134.7	111.5	88.3	83.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)