

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: P191658

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191658
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 60775 lumens
Efficiency: N/A
Efficacy: 108.9 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 - G4

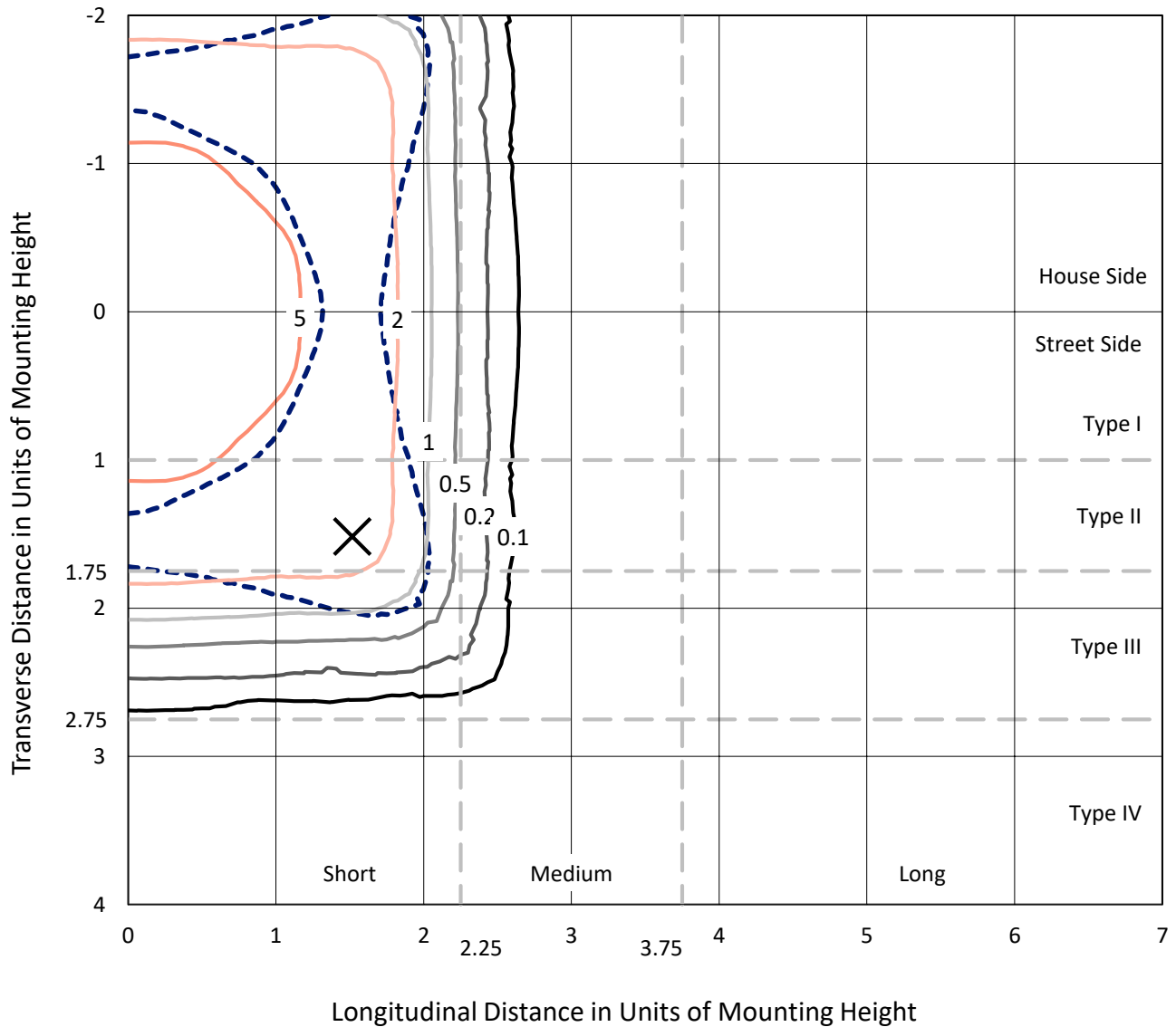
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

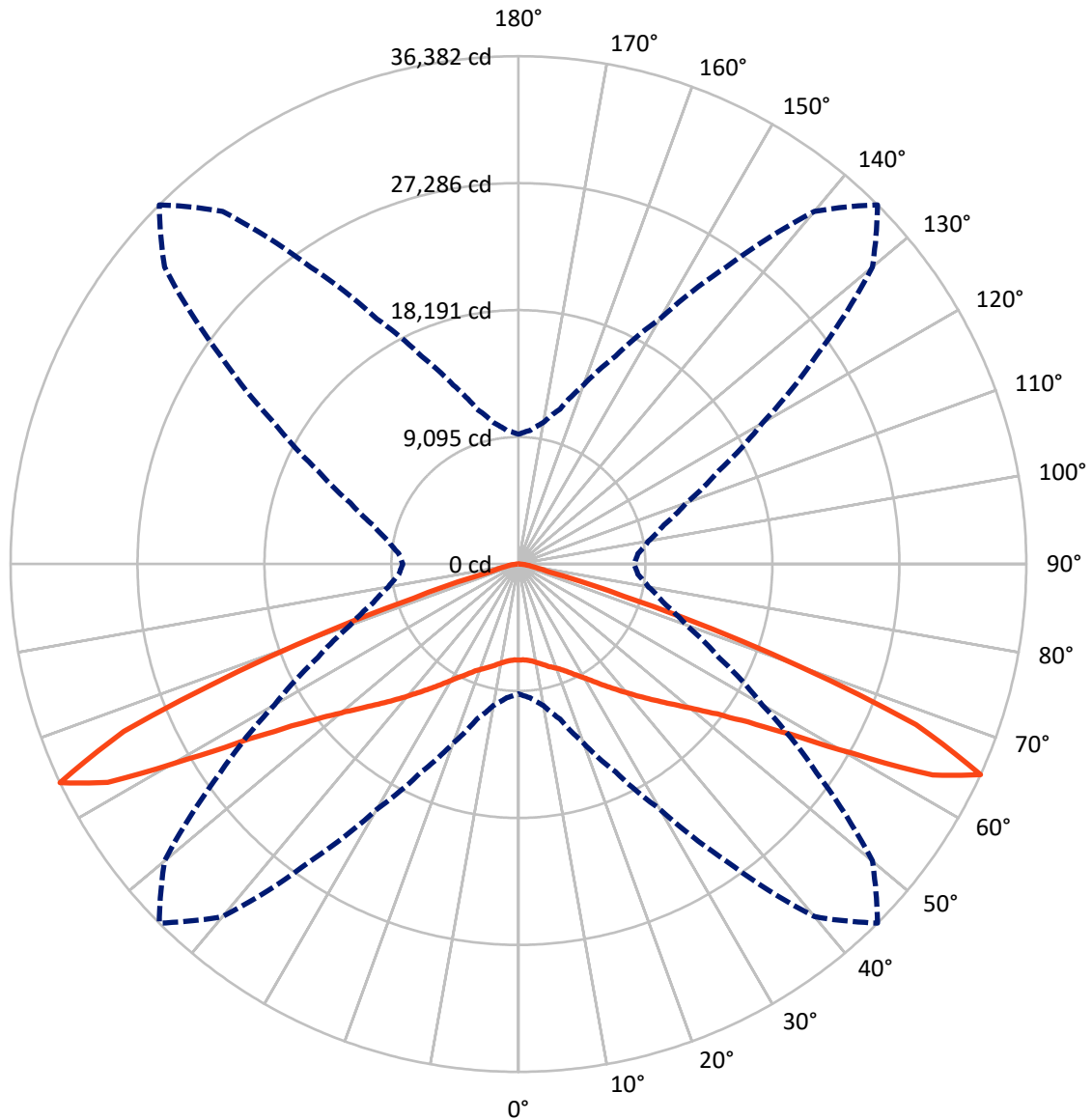
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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	30387.5	0.0	30387.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30387.5	0.0	30387.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	60775.0	0.0	60775.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.3	1.1
10°-20°	2149.6	3.5
20°-30°	4019.4	6.6
30°-40°	6798.0	11.2
40°-50°	11115.4	18.3
50°-60°	17675.2	29.1
60°-70°	15977.2	26.3
70°-80°	2022.0	3.3
80°-90°	347.8	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°	60775.0	100.0
0°-180°	60775.0	100.0



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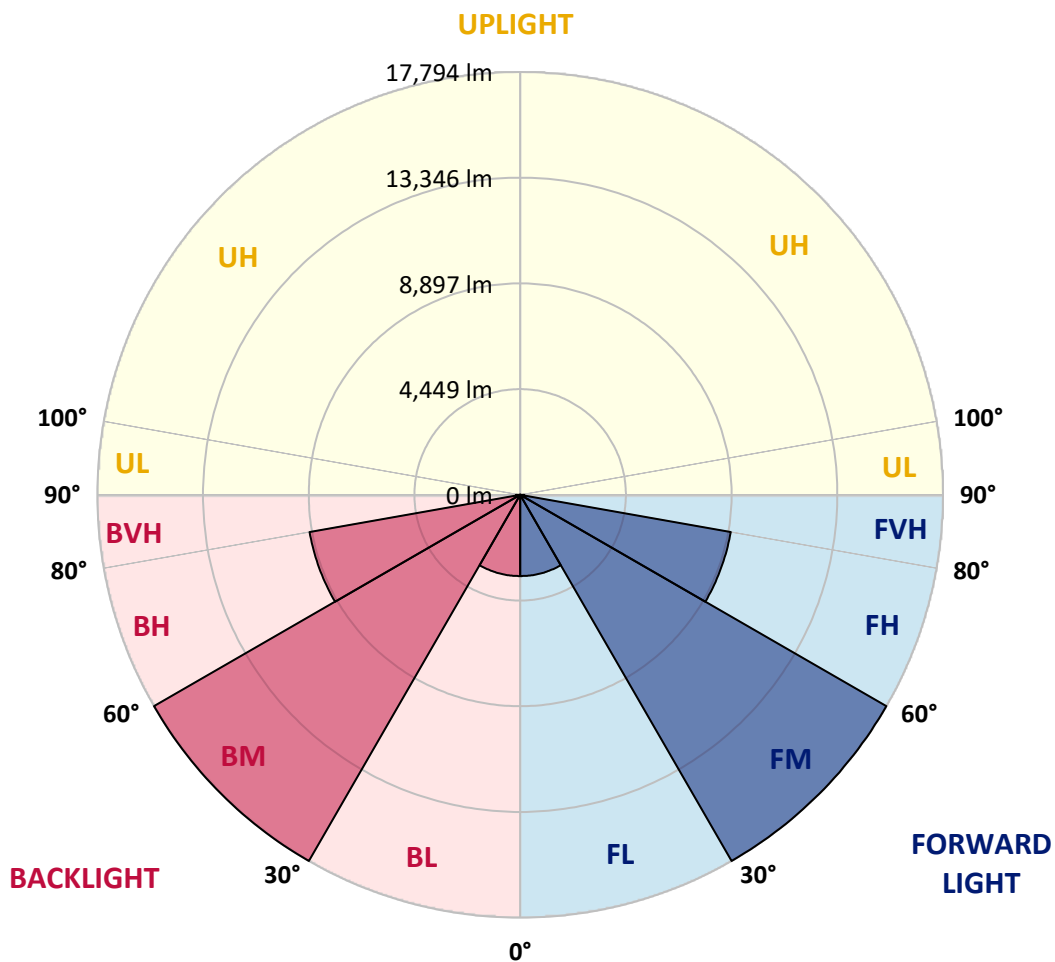
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3419.7	5.6			
FM	(30°-60°)	17794.3	29.3			
FH	(60°-80°)	8999.6	14.8			G4/12000
FVH	(80°-90°)	173.9	0.3			G2/225
BL	(0°-30°)	3419.7	5.6	B4/5000		
BM	(30°-60°)	17794.3	29.3	B5		
BH	(60°-80°)	8999.6	14.8	B5		G4/12000
BVH	(80°-90°)	173.9	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7
2.5°	6882.4	6888.1	6893.8	6888.1	6893.8	6885.3	6879.6	6888.1	6879.6	6871.0	6876.7
5°	6942.2	6945.0	6945.0	6936.5	6945.0	6939.3	6930.8	6942.2	6933.7	6925.1	6930.8
7.5°	7041.8	7053.2	7044.7	7036.1	7041.8	7036.1	7030.4	7033.3	7030.4	7021.9	7024.7
10°	7175.6	7184.1	7178.4	7175.6	7181.3	7178.4	7172.7	7169.9	7172.7	7164.2	7164.2
12.5°	7337.8	7335.0	7332.1	7335.0	7343.5	7343.5	7340.7	7343.5	7349.2	7352.1	7346.4
15°	7497.2	7502.9	7502.9	7502.9	7520.0	7534.2	7542.8	7548.5	7559.8	7562.7	7551.3
17.5°	7696.5	7696.5	7693.6	7696.5	7713.5	7736.3	7744.9	7756.2	7767.6	7776.2	7761.9
20°	7918.5	7924.2	7924.2	7929.9	7952.6	7978.3	7978.3	7983.9	7978.3	7983.9	7975.4
22.5°	8188.9	8206.0	8206.0	8208.8	8231.6	8262.9	8254.3	8262.9	8248.7	8260.0	8248.7
25°	8541.8	8567.4	8561.7	8561.7	8578.8	8598.8	8601.6	8618.7	8615.8	8630.1	8621.5
27.5°	8940.3	8980.2	8991.5	8988.7	9000.1	9020.0	9025.7	9045.6	9034.2	9045.6	9039.9
30°	9418.5	9435.6	9458.3	9466.9	9481.1	9501.0	9501.0	9503.9	9489.7	9506.7	9515.3
32.5°	9913.8	9945.1	9967.8	10019.1	10044.7	10058.9	10056.1	10061.8	10047.5	10070.3	10087.4
35°	10568.4	10591.2	10628.2	10668.0	10702.2	10699.3	10690.8	10693.6	10693.6	10713.6	10730.6
37.5°	11356.8	11362.5	11410.9	11467.8	11484.9	11467.8	11416.6	11405.2	11379.6	11405.2	11433.7
40°	12190.8	12210.7	12307.5	12344.5	12353.1	12321.7	12247.7	12205.0	12148.1	12179.4	12219.3
42.5°	13064.6	13104.5	13192.7	13258.2	13286.7	13266.7	13164.3	13098.8	13024.8	13041.9	13081.7
45°	14032.4	14080.8	14206.0	14268.6	14322.7	14291.4	14191.8	14092.2	13975.5	13984.0	14046.6
47.5°	15114.0	15162.4	15324.6	15429.9	15458.4	15452.7	15341.7	15205.1	15045.7	15040.0	15094.1
50°	16326.5	16374.9	16577.0	16739.2	16821.8	16813.2	16682.3	16488.8	16295.2	16298.1	16366.4
52.5°	17510.6	17570.4	17781.0	18059.9	18222.2	18338.9	18259.2	18077.0	17840.8	17846.5	17909.1
55°	18620.7	18720.3	18962.2	19340.8	19642.5	19969.8	20063.8	20058.1	19915.7	19955.6	20018.2
57.5°	19158.6	19306.6	19679.5	20277.2	20892.0	21558.1	22121.6	22542.9	22722.2	22992.6	22930.0
60°	18139.6	18375.9	18925.2	19804.7	21020.1	22409.1	23897.8	25352.2	26593.2	27529.7	26991.7
62.5°	14852.1	15159.5	15825.6	16952.7	18791.4	21014.4	23863.6	27302.0	31047.7	33307.7	31693.8
65°	9293.3	9612.0	10289.5	11496.3	13648.1	16411.9	20277.2	25975.6	32974.7	36381.7	33097.1
67.5°	3623.4	3797.0	4164.2	4935.5	6552.2	9011.5	12891.0	19357.9	27728.9	30714.7	27213.7
70°	1816.0	1833.0	1901.3	2043.7	2390.9	3105.3	4724.9	8974.5	15902.4	19207.0	15330.3
72.5°	1312.2	1315.0	1349.2	1411.8	1522.8	1682.2	1989.6	2746.7	5171.8	7904.2	4847.3
75°	1004.8	1016.1	1036.1	1070.2	1130.0	1209.7	1320.7	1582.6	1961.1	2274.2	1912.7
77.5°	774.2	797.0	811.2	842.5	879.5	933.6	964.9	1064.5	1238.2	1303.6	1283.7
80°	589.2	609.1	640.4	666.0	691.7	717.3	705.9	751.4	842.5	896.6	868.1
82.5°	375.7	398.5	489.6	512.3	523.7	540.8	520.9	523.7	563.6	597.7	563.6
85°	241.9	256.2	310.2	338.7	341.6	352.9	344.4	324.5	324.5	296.0	333.0
87.5°	111.0	113.9	139.5	165.1	170.8	153.7	150.9	145.2	116.7	111.0	119.5
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°	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7	6876.7
2.5°	6873.9	6879.6	6882.4	6891.0	6893.8	6893.8	6896.6	6902.3
5°	6928.0	6936.5	6939.3	6950.7	6953.6	6950.7	6956.4	6959.3
7.5°	7024.7	7039.0	7044.7	7056.0	7047.5	7058.9	7061.7	7061.7
10°	7167.0	7181.3	7184.1	7195.5	7189.8	7195.5	7195.5	7189.8
12.5°	7354.9	7357.8	7349.2	7357.8	7346.4	7352.1	7343.5	7337.8
15°	7562.7	7554.1	7534.2	7534.2	7517.1	7520.0	7517.1	7514.3
17.5°	7764.8	7747.7	7733.5	7727.8	7713.5	7710.7	7702.2	7702.2
20°	7986.8	7978.3	7969.7	7958.3	7944.1	7929.9	7927.0	7932.7
22.5°	8254.3	8251.5	8251.5	8245.8	8225.9	8211.7	8203.1	8203.1
25°	8613.0	8587.4	8587.4	8584.5	8576.0	8567.4	8550.4	8558.9
27.5°	9017.2	9002.9	9014.3	9011.5	9002.9	9002.9	8991.5	8991.5
30°	9515.3	9509.6	9526.7	9512.4	9484.0	9481.1	9469.7	9455.5
32.5°	10090.2	10084.5	10110.2	10093.1	10047.5	10021.9	9999.1	9987.8
35°	10730.6	10733.5	10764.8	10753.4	10702.2	10685.1	10645.3	10639.6
37.5°	11430.8	11476.4	11530.5	11541.9	11499.2	11487.8	11445.1	11422.3
40°	12253.4	12313.2	12395.8	12415.7	12370.1	12361.6	12301.8	12270.5
42.5°	13130.1	13232.6	13335.0	13352.1	13306.6	13261.0	13204.1	13181.3
45°	14109.2	14231.6	14365.4	14399.6	14331.3	14277.2	14203.2	14203.2
47.5°	15207.9	15361.6	15512.5	15606.4	15543.8	15486.9	15398.6	15341.7
50°	16505.8	16716.5	16912.9	17009.6	16910.0	16801.9	16648.2	16596.9
52.5°	18133.9	18361.6	18532.4	18481.2	18327.5	18176.6	18008.7	17940.4
55°	20211.8	20288.6	20288.6	20095.1	19787.7	19534.3	19269.6	19181.4
57.5°	22810.5	22514.4	22059.0	21481.2	20755.4	20123.5	19696.6	19494.5
60°	25864.6	24441.4	22833.2	21253.5	19955.6	18885.4	18250.6	17960.3
62.5°	27899.7	24176.7	20954.7	18418.6	16551.4	15262.0	14385.3	14043.8
65°	26075.2	20163.4	15848.3	12814.2	10779.0	9466.9	8598.8	8280.0
67.5°	19098.8	12634.8	8439.4	6048.4	4431.7	3535.1	3179.3	3031.3
70°	8573.1	4448.8	2726.8	2129.1	1835.9	1685.0	1619.6	1596.8
72.5°	2584.5	1870.0	1576.9	1423.2	1306.5	1232.5	1178.4	1172.7
75°	1559.8	1297.9	1152.8	1061.7	987.7	927.9	899.4	890.9
77.5°	1090.1	953.5	885.2	819.7	762.8	717.3	691.7	671.7
80°	765.7	700.2	668.9	631.9	594.9	552.2	515.2	498.1
82.5°	512.3	498.1	498.1	475.3	444.0	404.2	330.2	313.1
85°	330.2	327.3	333.0	324.5	301.7	259.0	213.5	202.1
87.5°	153.7	156.5	173.6	170.8	165.1	136.6	108.2	102.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)