

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: P191667

Luminaire Tested: **GLEON-AF-09-LED-E1-5NQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191667
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-09-LED-E1-5NQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60215 lumens
Efficiency: N/A
Efficacy: 104.7 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): 575
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

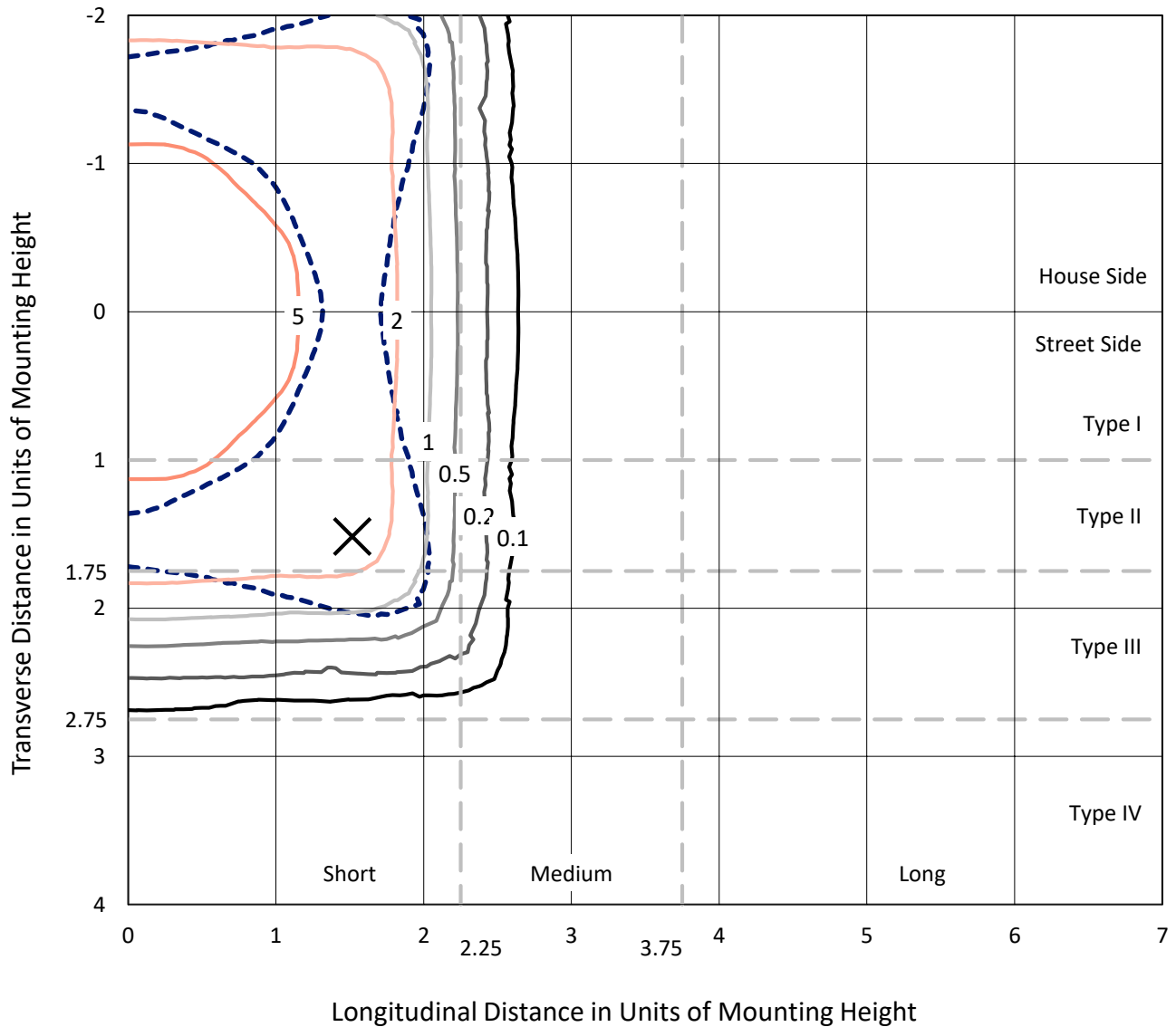


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

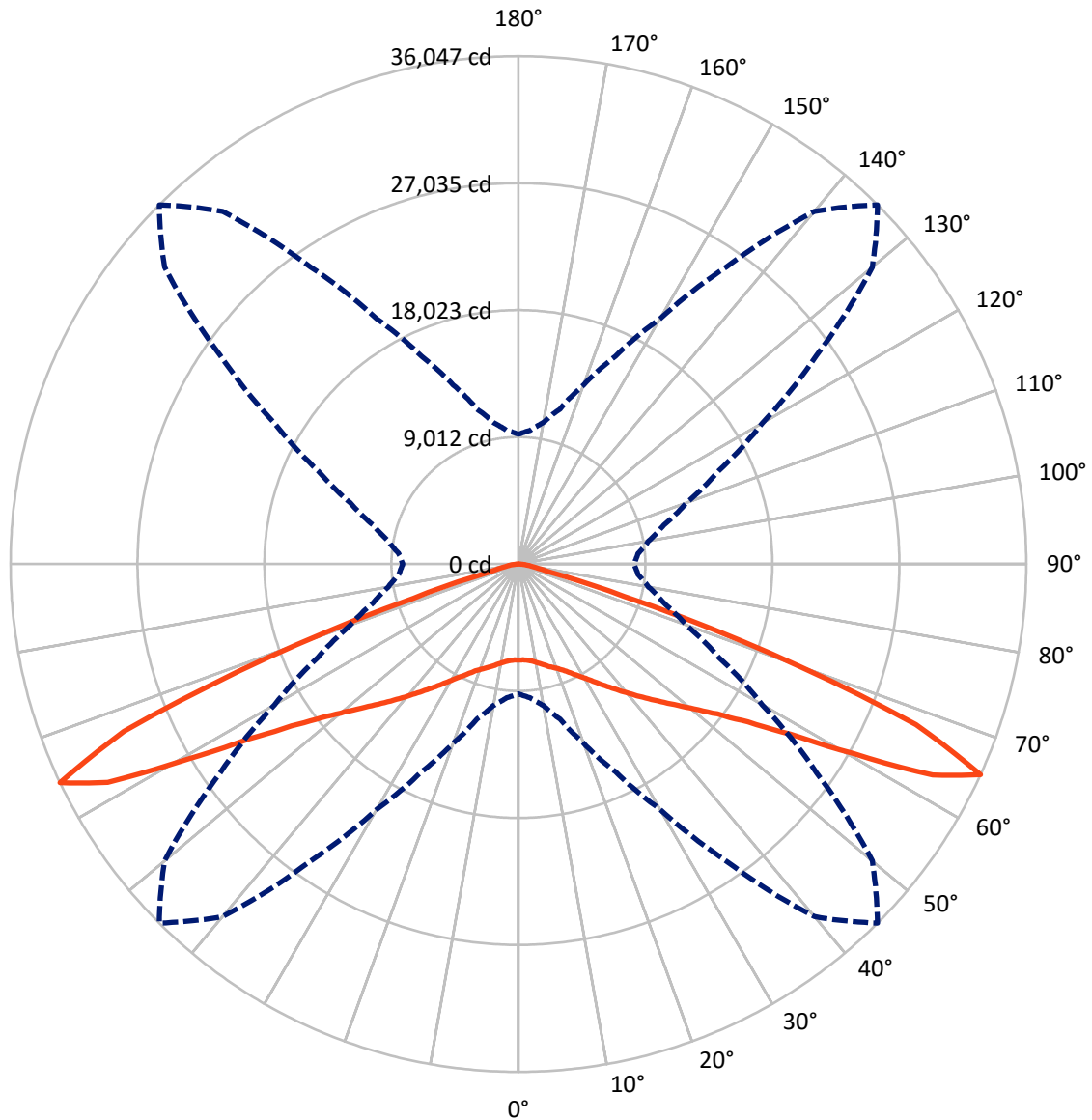


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - Full Cutoff

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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	30107.5	0.0	30107.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30107.5	0.0	30107.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	60215.0	0.0	60215.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.1	1.1
10°-20°	2129.8	3.5
20°-30°	3982.4	6.6
30°-40°	6735.3	11.2
40°-50°	11013.0	18.3
50°-60°	17512.4	29.1
60°-70°	15830.0	26.3
70°-80°	2003.4	3.3
80°-90°	344.6	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°	60215.0	100.0
0°-180°	60215.0	100.0



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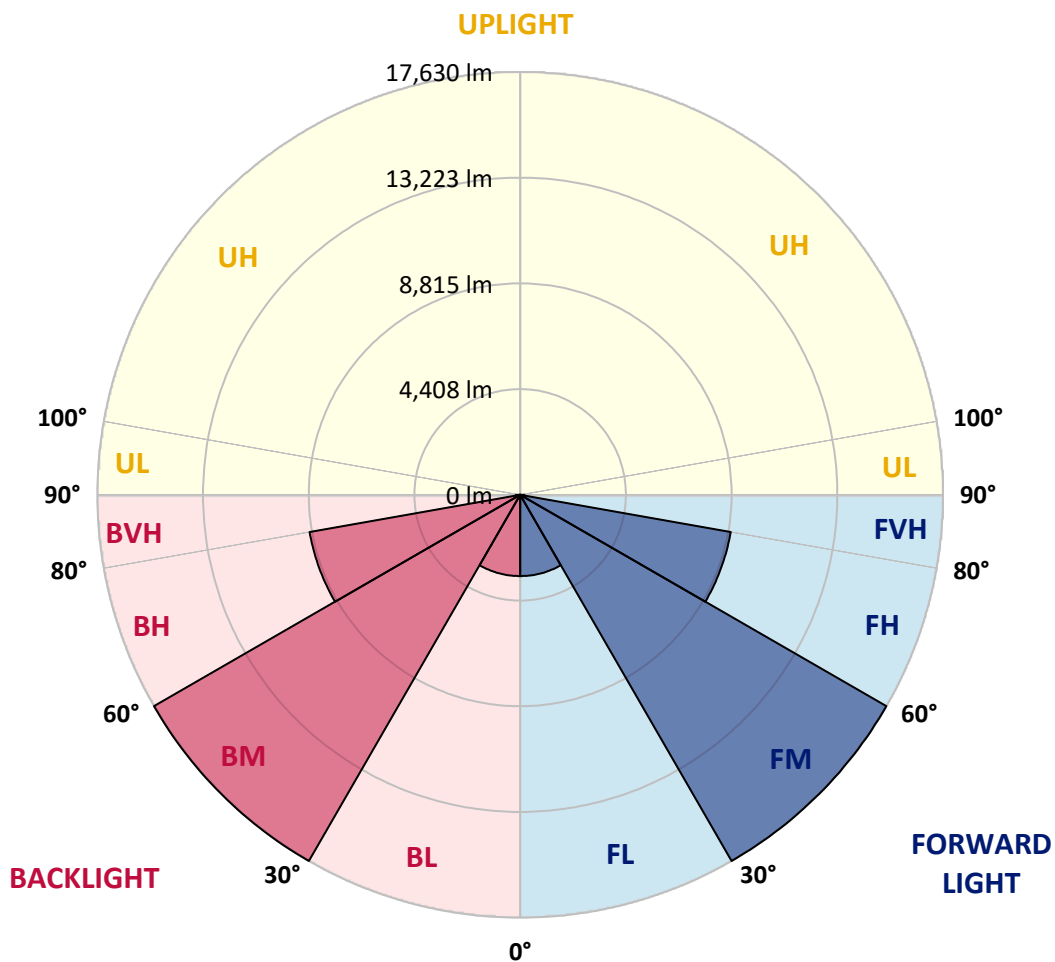
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3388.2	5.6			
FM	(30°-60°)	17630.3	29.3			
FH	(60°-80°)	8916.7	14.8			G4/12000
FVH	(80°-90°)	172.3	0.3			G2/225
BL	(0°-30°)	3388.2	5.6	B4/5000		
BM	(30°-60°)	17630.3	29.3	B5		
BH	(60°-80°)	8916.7	14.8	B5		G4/12000
BVH	(80°-90°)	172.3	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4
2.5°	6819.0	6824.6	6830.3	6824.6	6830.3	6821.8	6816.2	6824.6	6816.2	6807.7	6813.4
5°	6878.2	6881.0	6881.0	6872.6	6881.0	6875.4	6866.9	6878.2	6869.8	6861.3	6866.9
7.5°	6976.9	6988.2	6979.7	6971.3	6976.9	6971.3	6965.6	6968.5	6965.6	6957.2	6960.0
10°	7109.5	7117.9	7112.3	7109.5	7115.1	7112.3	7106.6	7103.8	7106.6	7098.2	7098.2
12.5°	7270.2	7267.4	7264.6	7267.4	7275.9	7275.9	7273.0	7275.9	7281.5	7284.3	7278.7
15°	7428.1	7433.8	7433.8	7433.8	7450.7	7464.8	7473.3	7478.9	7490.2	7493.0	7481.7
17.5°	7625.5	7625.5	7622.7	7625.5	7642.5	7665.0	7673.5	7684.8	7696.1	7704.5	7690.4
20°	7845.5	7851.2	7851.2	7856.8	7879.4	7904.7	7904.7	7910.4	7904.7	7910.4	7901.9
22.5°	8113.4	8130.3	8130.3	8133.2	8155.7	8186.7	8178.3	8186.7	8172.6	8183.9	8172.6
25°	8463.1	8488.5	8482.9	8482.9	8499.8	8519.5	8522.3	8539.3	8536.4	8550.5	8542.1
27.5°	8857.9	8897.4	8908.7	8905.9	8917.2	8936.9	8942.5	8962.3	8951.0	8962.3	8956.6
30°	9331.7	9348.6	9371.2	9379.6	9393.8	9413.5	9413.5	9416.3	9402.2	9419.1	9427.6
32.5°	9822.4	9853.4	9876.0	9926.7	9952.1	9966.2	9963.4	9969.1	9954.9	9977.5	9994.4
35°	10471.0	10493.6	10530.3	10569.7	10603.6	10600.8	10592.3	10595.1	10595.1	10614.9	10631.8
37.5°	11252.2	11257.8	11305.8	11362.2	11379.1	11362.2	11311.4	11300.1	11274.8	11300.1	11328.3
40°	12078.5	12098.2	12194.1	12230.8	12239.2	12208.2	12134.9	12092.6	12036.2	12067.2	12106.7
42.5°	12944.3	12983.7	13071.2	13136.0	13164.2	13144.5	13043.0	12978.1	12904.8	12921.7	12961.2
45°	13903.1	13951.0	14075.1	14137.2	14190.7	14159.7	14061.0	13962.3	13846.7	13855.1	13917.2
47.5°	14974.7	15022.7	15183.4	15287.8	15316.0	15310.3	15200.3	15065.0	14907.0	14901.4	14955.0
50°	16176.1	16224.0	16424.3	16585.0	16666.8	16658.3	16528.6	16336.8	16145.1	16147.9	16215.6
52.5°	17349.2	17408.5	17617.2	17893.5	18054.3	18169.9	18090.9	17910.4	17676.4	17682.0	17744.1
55°	18449.1	18547.8	18787.5	19162.6	19461.5	19785.8	19878.9	19873.2	19732.2	19771.7	19833.8
57.5°	18982.1	19128.7	19498.2	20090.4	20699.5	21359.4	21917.8	22335.2	22512.9	22780.8	22718.7
60°	17972.5	18206.6	18750.8	19622.2	20826.4	22202.6	23677.6	25118.6	26348.2	27276.0	26743.0
62.5°	14715.3	15019.8	15679.8	16796.5	18618.3	20820.8	23643.7	27050.4	30761.6	33000.8	31401.8
65°	9207.6	9523.5	10194.7	11390.4	13522.4	16260.7	20090.4	25736.2	32670.8	36046.5	32792.1
67.5°	3590.0	3762.0	4125.8	4890.1	6491.9	8928.4	12772.2	19179.5	27473.4	30431.7	26963.0
70°	1799.2	1816.1	1883.8	2024.8	2368.9	3076.7	4681.4	8891.8	15755.9	19030.0	15189.1
72.5°	1300.1	1302.9	1336.7	1398.8	1508.8	1666.7	1971.2	2721.4	5124.1	7831.4	4802.6
75°	995.5	1006.8	1026.5	1060.4	1119.6	1198.5	1308.5	1568.0	1943.0	2253.3	1895.1
77.5°	767.1	789.6	803.7	834.7	871.4	925.0	956.0	1054.7	1226.7	1291.6	1271.9
80°	583.8	603.5	634.5	659.9	685.3	710.7	699.4	744.5	834.7	888.3	860.1
82.5°	372.3	394.8	485.1	507.6	518.9	535.8	516.1	518.9	558.4	592.2	558.4
85°	239.7	253.8	307.4	335.6	338.4	349.7	341.2	321.5	321.5	293.3	330.0
87.5°	110.0	112.8	138.2	163.6	169.2	152.3	149.5	143.8	115.6	110.0	118.4
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°	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4	6813.4
2.5°	6810.5	6816.2	6819.0	6827.5	6830.3	6830.3	6833.1	6838.7
5°	6864.1	6872.6	6875.4	6886.7	6889.5	6886.7	6892.3	6895.1
7.5°	6960.0	6974.1	6979.7	6991.0	6982.6	6993.8	6996.7	6996.7
10°	7101.0	7115.1	7117.9	7129.2	7123.6	7129.2	7129.2	7123.6
12.5°	7287.1	7290.0	7281.5	7290.0	7278.7	7284.3	7275.9	7270.2
15°	7493.0	7484.5	7464.8	7464.8	7447.9	7450.7	7447.9	7445.1
17.5°	7693.2	7676.3	7662.2	7656.6	7642.5	7639.6	7631.2	7631.2
20°	7913.2	7904.7	7896.3	7885.0	7870.9	7856.8	7854.0	7859.6
22.5°	8178.3	8175.5	8175.5	8169.8	8150.1	8136.0	8127.5	8127.5
25°	8533.6	8508.2	8508.2	8505.4	8497.0	8488.5	8471.6	8480.0
27.5°	8934.1	8920.0	8931.3	8928.4	8920.0	8920.0	8908.7	8908.7
30°	9427.6	9422.0	9438.9	9424.8	9396.6	9393.8	9382.5	9368.4
32.5°	9997.3	9991.6	10017.0	10000.1	9954.9	9929.6	9907.0	9895.7
35°	10631.8	10634.6	10665.6	10654.3	10603.6	10586.7	10547.2	10541.5
37.5°	11325.5	11370.6	11424.2	11435.5	11393.2	11381.9	11339.6	11317.1
40°	12140.5	12199.7	12281.5	12301.3	12256.2	12247.7	12188.5	12157.4
42.5°	13009.1	13110.6	13212.2	13229.1	13184.0	13138.8	13082.4	13059.9
45°	13979.2	14100.5	14233.0	14266.9	14199.2	14145.6	14072.3	14072.3
47.5°	15067.8	15220.1	15369.5	15462.6	15400.6	15344.2	15256.7	15200.3
50°	16353.8	16562.4	16757.0	16852.9	16754.2	16647.0	16494.8	16444.0
52.5°	17966.9	18192.5	18361.7	18310.9	18158.6	18009.2	17842.8	17775.1
55°	20025.5	20101.7	20101.7	19909.9	19605.3	19354.3	19092.1	19004.6
57.5°	22600.3	22307.0	21855.8	21283.3	20564.2	19938.1	19515.1	19314.9
60°	25626.2	24216.2	22622.8	21057.7	19771.7	18711.4	18082.5	17794.8
62.5°	27642.6	23953.9	20761.6	18248.9	16398.9	15121.4	14252.8	13914.4
65°	25834.9	19977.6	15702.3	12696.1	10679.7	9379.6	8519.5	8203.7
67.5°	18922.9	12518.4	8361.6	5992.7	4390.9	3502.6	3150.1	3003.4
70°	8494.1	4407.8	2701.7	2109.4	1819.0	1669.5	1604.6	1582.1
72.5°	2560.7	1852.8	1562.3	1410.0	1294.4	1221.1	1167.5	1161.9
75°	1545.4	1286.0	1142.1	1051.9	978.6	919.4	891.2	882.7
77.5°	1080.1	944.7	877.1	812.2	755.8	710.7	685.3	665.5
80°	758.6	693.7	662.7	626.1	589.4	547.1	510.4	493.5
82.5°	507.6	493.5	493.5	471.0	439.9	400.5	327.1	310.2
85°	327.1	324.3	330.0	321.5	298.9	256.6	211.5	200.2
87.5°	152.3	155.1	172.0	169.2	163.6	135.4	107.2	101.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)