

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: P190867

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190867
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 61597 lumens
Efficiency: N/A
Efficacy: 107.1 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

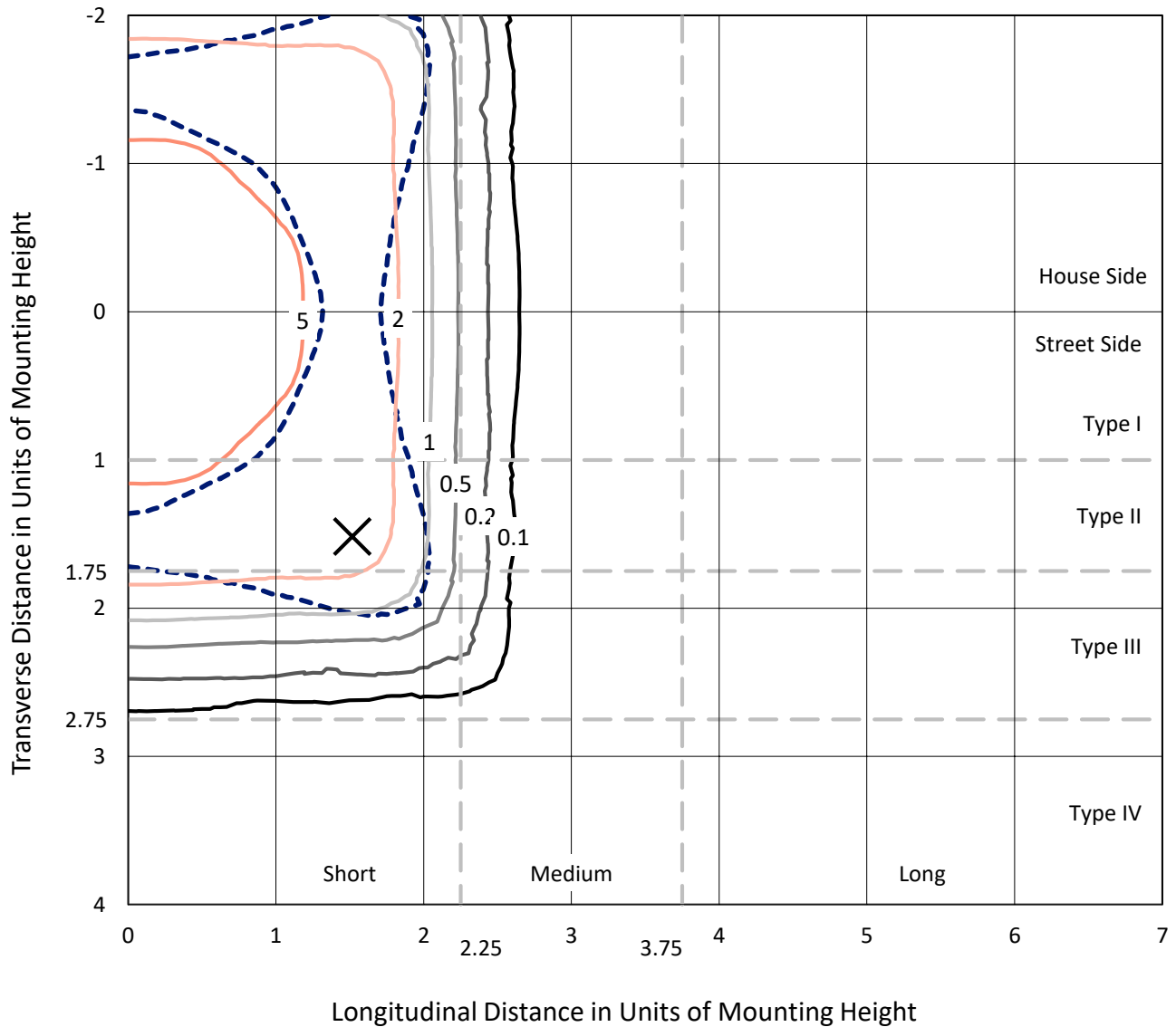
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

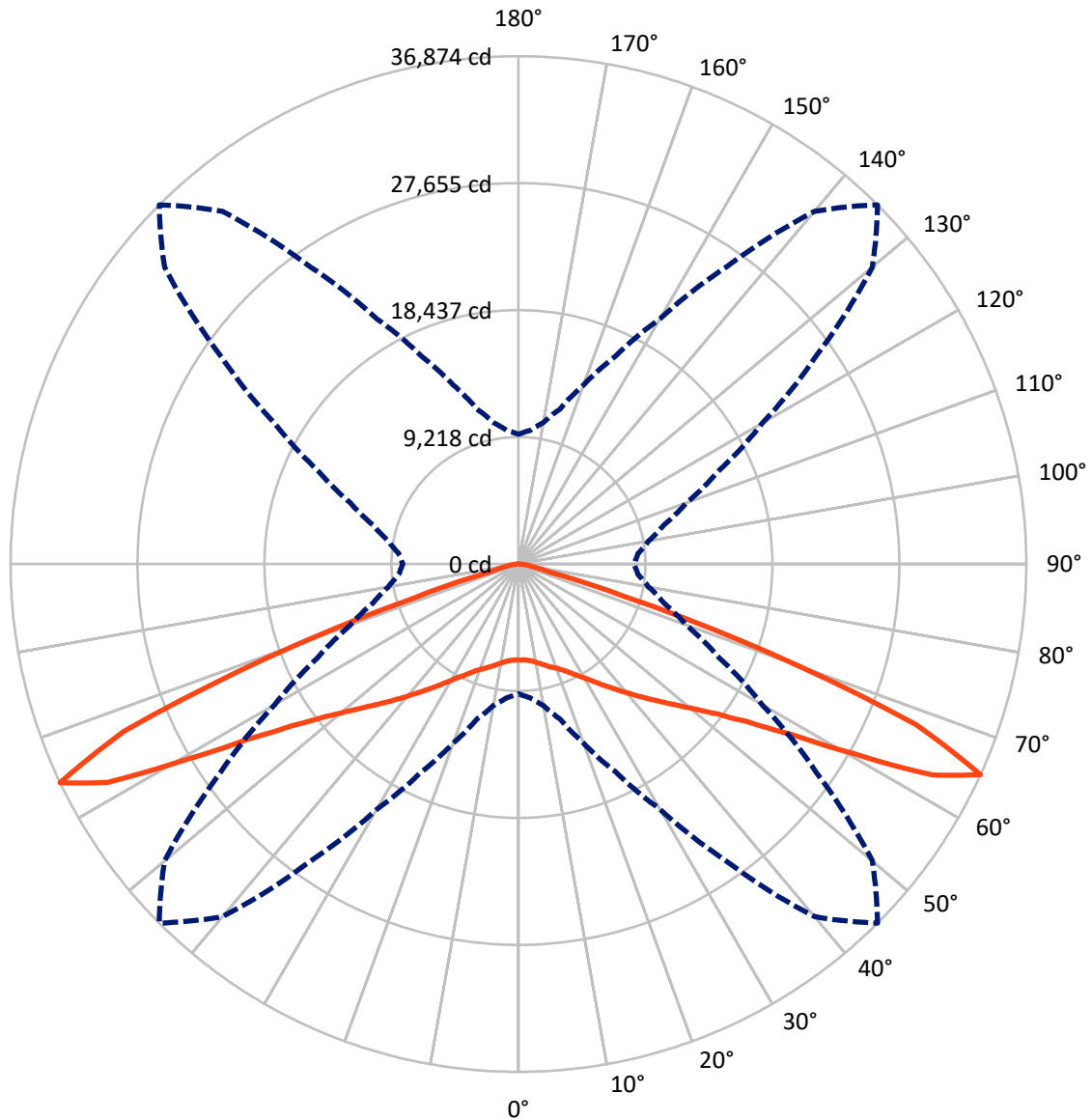
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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	30798.5	0.0	30798.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30798.5	0.0	30798.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61597.0	0.0	61597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.3	1.1
10°-20°	2178.7	3.5
20°-30°	4073.8	6.6
30°-40°	6889.9	11.2
40°-50°	11265.7	18.3
50°-60°	17914.3	29.1
60°-70°	16193.3	26.3
70°-80°	2049.3	3.3
80°-90°	352.5	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°	61597.0	100.0
0°-180°	61597.0	100.0

Coefficient of Utilization



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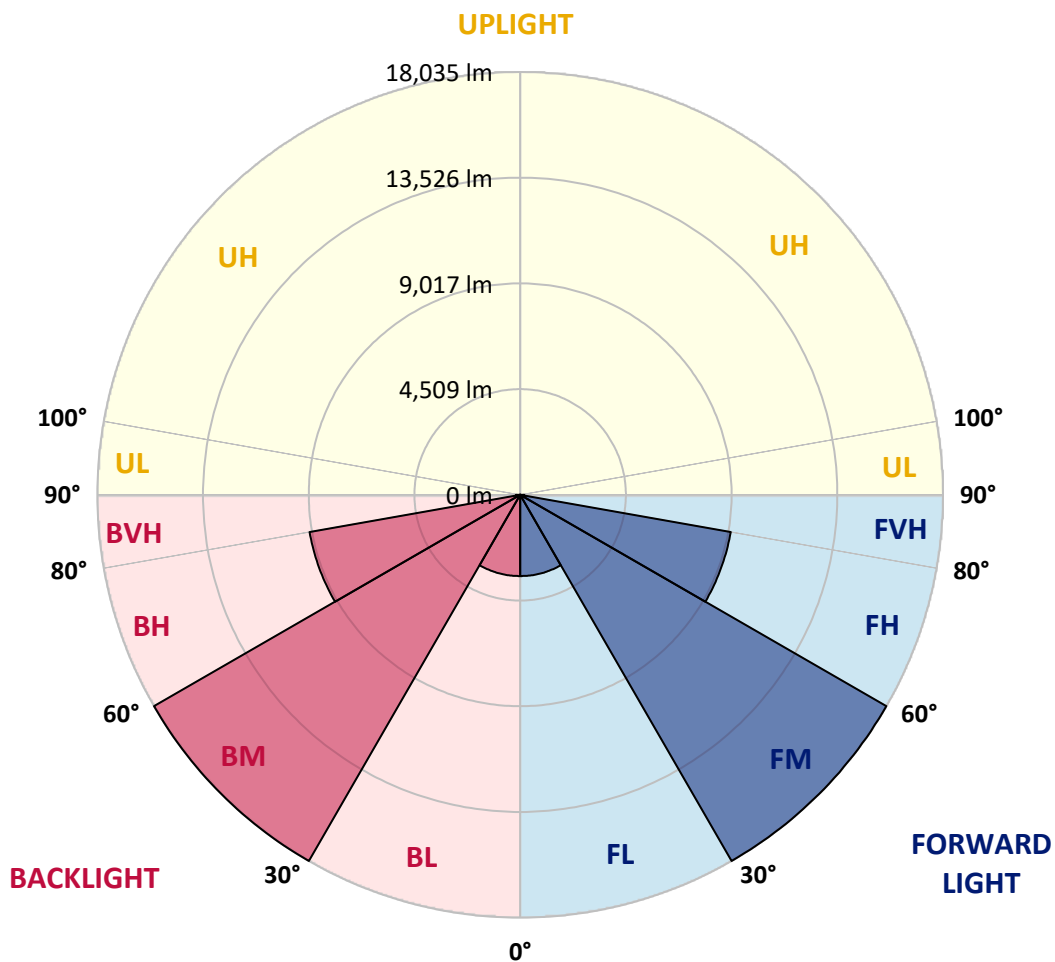
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3465.9	5.6			
FM	(30°-60°)	18035.0	29.3			
FH	(60°-80°)	9121.3	14.8			G4/12000
FVH	(80°-90°)	176.3	0.3			G2/225
BL	(0°-30°)	3465.9	5.6	B4/5000		
BM	(30°-60°)	18035.0	29.3	B5		
BH	(60°-80°)	9121.3	14.8	B5		G4/12000
BVH	(80°-90°)	176.3	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°	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8
2.5°	6975.5	6981.2	6987.1	6981.2	6987.1	6978.4	6972.6	6981.2	6972.6	6963.9	6969.8
5°	7036.1	7038.9	7038.9	7030.3	7038.9	7033.2	7024.5	7036.1	7027.5	7018.8	7024.5
7.5°	7137.0	7148.6	7139.9	7131.3	7137.0	7131.3	7125.5	7128.4	7125.5	7116.9	7119.7
10°	7272.7	7281.3	7275.5	7272.7	7278.4	7275.5	7269.7	7266.8	7269.7	7261.1	7261.1
12.5°	7437.1	7434.2	7431.3	7434.2	7442.9	7442.9	7439.9	7442.9	7448.6	7451.5	7445.8
15°	7598.6	7604.4	7604.4	7604.4	7621.7	7636.1	7644.8	7650.5	7662.1	7665.0	7653.4
17.5°	7800.5	7800.5	7797.6	7800.5	7817.9	7840.9	7849.6	7861.2	7872.7	7881.3	7866.9
20°	8025.6	8031.4	8031.4	8037.1	8060.2	8086.1	8086.1	8092.0	8086.1	8092.0	8083.3
22.5°	8299.6	8316.9	8316.9	8319.9	8342.9	8374.6	8366.0	8374.6	8360.2	8371.7	8360.2
25°	8657.3	8683.3	8677.6	8677.6	8694.9	8715.0	8717.9	8735.3	8732.3	8746.7	8738.1
27.5°	9061.2	9101.6	9113.2	9110.3	9121.9	9142.0	9147.7	9168.0	9156.4	9168.0	9162.2
30°	9545.9	9563.2	9586.3	9594.9	9609.4	9629.5	9629.5	9632.4	9618.0	9635.3	9644.0
32.5°	10047.8	10079.5	10102.7	10154.5	10180.5	10194.9	10192.1	10197.9	10183.4	10206.5	10223.8
35°	10711.3	10734.4	10772.0	10812.3	10847.0	10844.1	10835.4	10838.3	10838.3	10858.5	10875.8
37.5°	11510.4	11516.2	11565.3	11623.0	11640.3	11623.0	11571.0	11559.4	11533.6	11559.4	11588.3
40°	12355.7	12375.9	12474.0	12511.5	12520.1	12488.4	12413.4	12370.1	12312.4	12344.2	12384.6
42.5°	13241.4	13281.7	13371.2	13437.5	13466.3	13446.2	13342.3	13276.0	13201.0	13218.3	13258.7
45°	14222.2	14271.2	14398.1	14461.7	14516.4	14484.7	14383.7	14282.7	14164.5	14173.1	14236.6
47.5°	15318.4	15367.5	15531.9	15638.7	15667.5	15661.7	15549.2	15410.8	15249.1	15243.4	15298.2
50°	16547.4	16596.4	16801.3	16965.6	17049.3	17040.6	16907.9	16711.7	16515.6	16518.5	16587.8
52.5°	17747.4	17808.0	18021.5	18304.2	18468.7	18586.9	18506.1	18321.5	18082.1	18087.8	18151.3
55°	18872.5	18973.5	19218.7	19602.4	19908.2	20239.9	20335.1	20329.3	20185.1	20225.5	20289.0
57.5°	19417.8	19567.7	19945.7	20551.5	21174.6	21849.6	22420.8	22847.8	23029.6	23303.6	23240.1
60°	18385.0	18624.5	19181.1	20072.5	21304.4	22712.2	24221.0	25695.1	26952.9	27902.0	27356.8
62.5°	15053.0	15364.5	16039.7	17182.0	19045.6	21298.7	24186.3	27671.2	31467.6	33758.2	32122.5
65°	9418.9	9742.1	10428.7	11651.8	13832.8	16633.9	20551.5	26326.9	33420.6	36873.8	33544.7
67.5°	3672.4	3848.3	4220.5	5002.3	6640.9	9133.3	13065.3	19619.7	28103.9	31130.1	27581.8
70°	1840.5	1857.8	1927.0	2071.3	2423.3	3147.3	4788.8	9095.9	16117.5	19466.8	15537.7
72.5°	1329.9	1332.8	1367.4	1430.9	1543.4	1705.0	2016.4	2783.9	5241.7	8011.1	4912.8
75°	1018.3	1029.9	1050.1	1084.7	1145.3	1226.0	1338.5	1604.0	1987.6	2305.0	1938.6
77.5°	784.7	807.7	822.1	853.9	891.4	946.2	977.9	1078.9	1254.9	1321.2	1301.1
80°	597.2	617.4	649.1	675.0	701.0	727.0	715.5	761.6	853.9	908.7	879.8
82.5°	380.8	403.9	496.2	519.2	530.8	548.1	527.9	530.8	571.2	605.8	571.2
85°	245.2	259.6	314.5	343.3	346.2	357.7	349.0	328.9	328.9	300.0	337.6
87.5°	112.5	115.4	141.4	167.4	173.1	155.8	152.9	147.1	118.3	112.5	121.1
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°	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8	6969.8
2.5°	6966.8	6972.6	6975.5	6984.2	6987.1	6987.1	6989.9	6995.7
5°	7021.6	7030.3	7033.2	7044.8	7047.6	7044.8	7050.5	7053.3
7.5°	7119.7	7134.2	7139.9	7151.4	7142.9	7154.3	7157.3	7157.3
10°	7264.0	7278.4	7281.3	7292.8	7287.1	7292.8	7292.8	7287.1
12.5°	7454.3	7457.3	7448.6	7457.3	7445.8	7451.5	7442.9	7437.1
15°	7665.0	7656.3	7636.1	7636.1	7618.8	7621.7	7618.8	7616.0
17.5°	7869.8	7852.5	7838.1	7832.3	7817.9	7814.9	7806.3	7806.3
20°	8094.8	8086.1	8077.5	8066.0	8051.5	8037.1	8034.3	8040.0
22.5°	8366.0	8363.1	8363.1	8357.3	8337.2	8322.7	8314.0	8314.0
25°	8729.5	8703.5	8703.5	8700.6	8692.0	8683.3	8666.0	8674.6
27.5°	9139.1	9124.7	9136.3	9133.3	9124.7	9124.7	9113.2	9113.2
30°	9644.0	9638.2	9655.5	9641.1	9612.3	9609.4	9597.8	9583.4
32.5°	10226.7	10220.9	10246.9	10229.6	10183.4	10157.5	10134.4	10122.8
35°	10875.8	10878.7	10910.4	10898.8	10847.0	10829.7	10789.3	10783.4
37.5°	11585.4	11631.6	11686.4	11698.0	11654.7	11643.1	11599.9	11576.8
40°	12419.1	12479.7	12563.4	12583.6	12537.5	12528.8	12468.2	12436.4
42.5°	13307.7	13411.5	13515.4	13532.7	13486.6	13440.3	13382.7	13359.6
45°	14300.0	14424.1	14559.7	14594.3	14525.1	14470.3	14395.3	14395.3
47.5°	15413.6	15569.4	15722.2	15817.5	15754.1	15696.4	15606.9	15549.2
50°	16729.1	16942.5	17141.6	17239.7	17138.7	17029.1	16873.4	16821.4
52.5°	18379.3	18610.0	18783.1	18731.2	18575.4	18422.5	18252.3	18183.1
55°	20485.1	20563.1	20563.1	20366.8	20055.3	19798.5	19530.3	19440.8
57.5°	23119.0	22819.0	22357.4	21771.8	21036.2	20395.7	19963.0	19758.2
60°	26214.3	24772.0	23142.0	21541.0	20225.5	19140.8	18497.5	18203.2
62.5°	28277.0	24503.7	21238.1	18667.7	16775.3	15468.4	14579.9	14233.7
65°	26427.8	20436.1	16062.7	12987.5	10924.8	9594.9	8715.0	8392.0
67.5°	19357.2	12805.7	8553.5	6130.2	4491.7	3583.0	3222.4	3072.3
70°	8689.0	4509.0	2763.7	2157.8	1860.7	1707.8	1641.4	1618.4
72.5°	2619.5	1895.3	1598.2	1442.4	1324.1	1249.1	1194.3	1188.6
75°	1580.9	1315.5	1168.3	1076.0	1001.1	940.5	911.7	903.0
77.5°	1104.9	966.4	897.2	830.8	773.1	727.0	701.0	680.8
80°	776.0	709.6	677.9	640.5	602.9	559.7	522.1	504.8
82.5°	519.2	504.8	504.8	481.8	450.0	409.7	334.6	317.3
85°	334.6	331.7	337.6	328.9	305.8	262.5	216.4	204.8
87.5°	155.8	158.7	175.9	173.1	167.4	138.5	109.7	103.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)