

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: P269106

Luminaire Tested: **GLEON-AF-02-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-T3-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6973.4 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

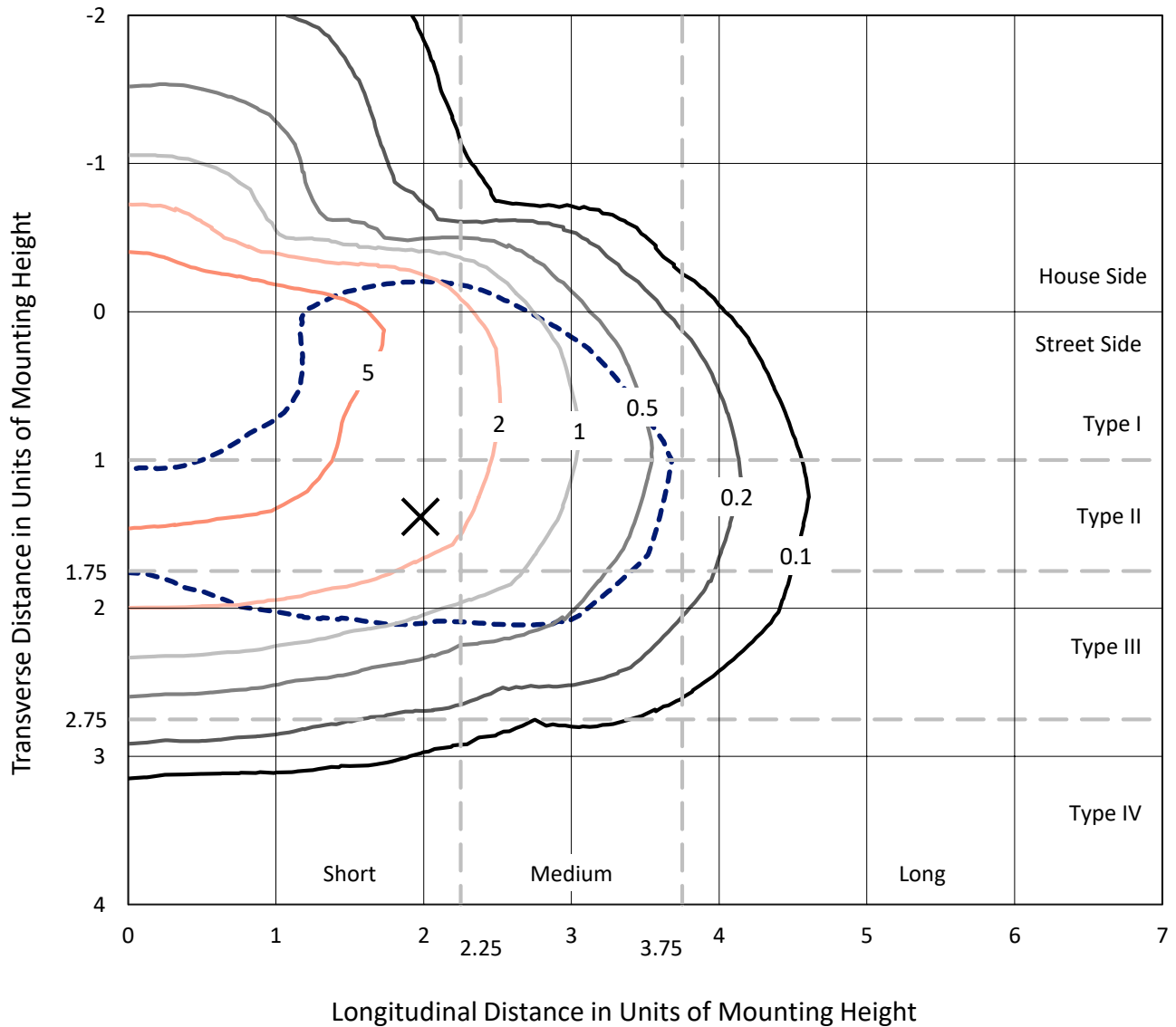


REPORT NUMBER: P269106

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

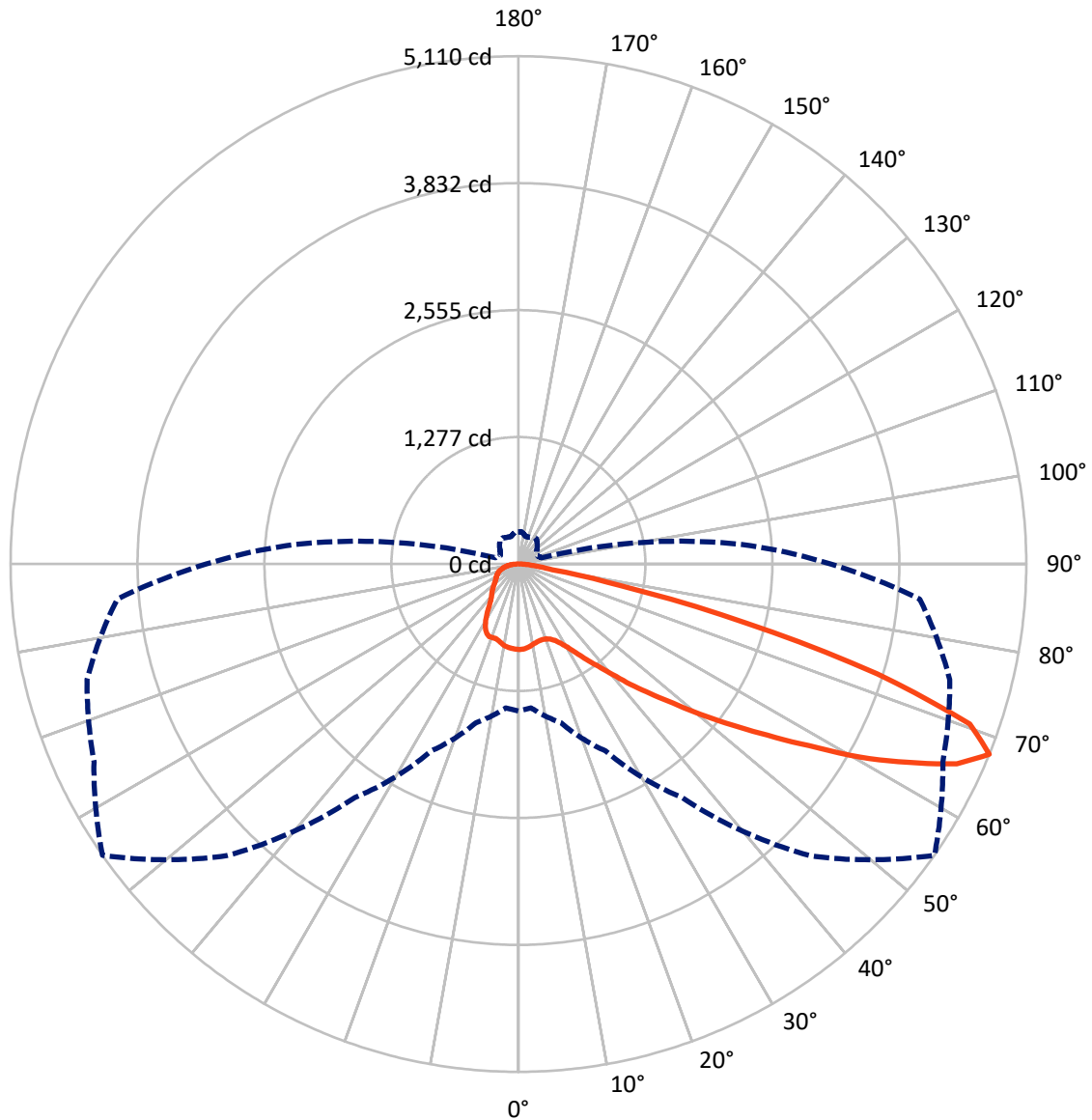
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P269106  
CATALOG NUMBER: GLEON-AF-02-LED-E1-T3-7027-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269106

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1506.4	0.0	1506.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	5467.0	0.0	5467.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	6973.4	0.0	6973.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	1.2
10°-20°	227.3	3.3
20°-30°	380.8	5.5
30°-40°	626.2	9.0
40°-50°	1054.0	15.1
50°-60°	1659.0	23.8
60°-70°	1979.8	28.4
70°-80°	850.2	12.2
80°-90°	115.9	1.7
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°	6973.4	100.0
0°-180°	6973.4	100.0



REPORT NUMBER: P269106

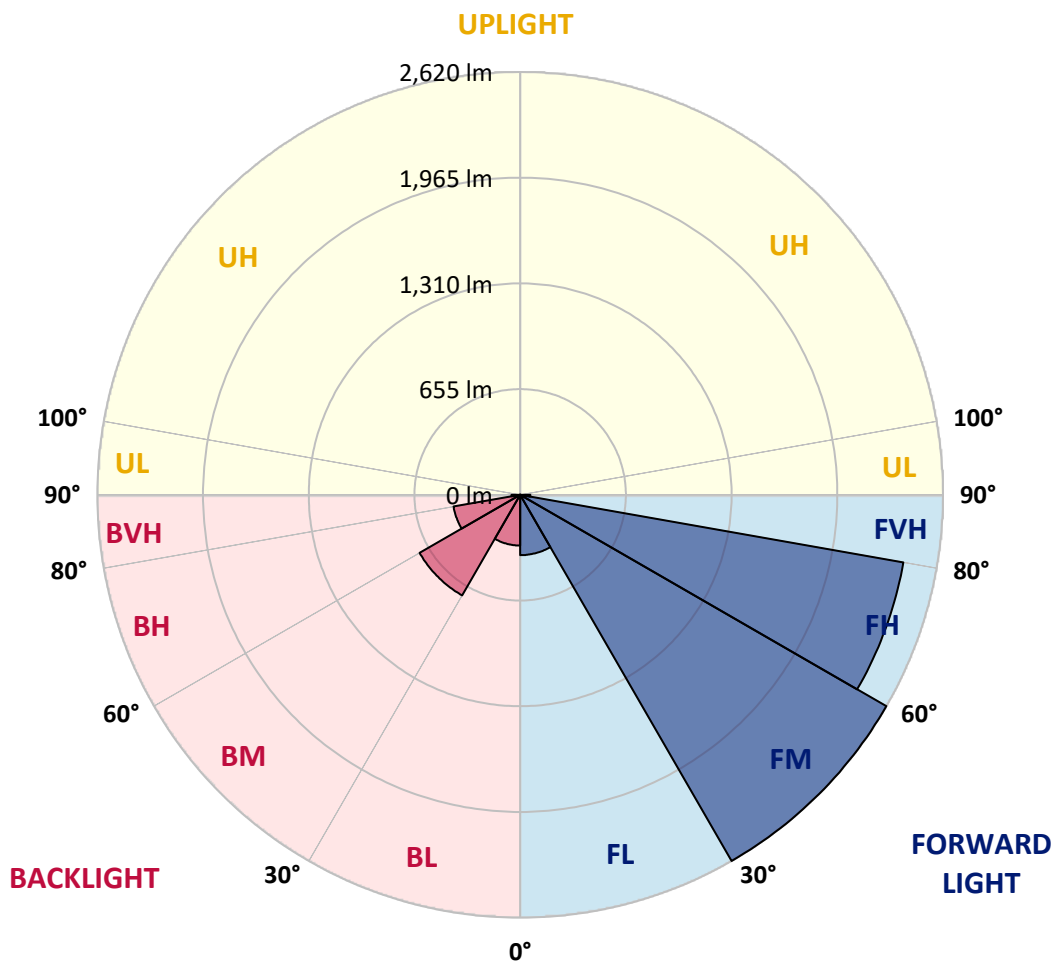
CATALOG NUMBER: GLEON-AF-02-LED-E1-T3-7027-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.8	5.4			
FM	(30°-60°)	2619.7	37.6			
FH	(60°-80°)	2410.7	34.6			G2/5000
FVH	(80°-90°)	62.7	0.9			G1/100
BL	(0°-30°)	314.6	4.5	B1/500		
BM	(30°-60°)	719.4	10.3	B1/1000		
BH	(60°-80°)	419.2	6.0	B1/500		G1/500
BVH	(80°-90°)	53.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





REPORT NUMBER: P269106

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9
2.5°	852.5	852.9	853.5	856.2	858.6	857.9	858.2	856.9	856.5	854.5	856.5
5°	841.7	842.7	843.1	847.5	850.2	850.9	849.7	848.1	846.2	844.0	845.0
7.5°	817.1	819.9	820.2	826.3	830.7	836.3	836.6	837.0	836.1	834.6	836.6
10°	801.6	802.2	801.9	806.4	809.7	816.1	819.9	826.3	829.0	829.6	830.9
12.5°	800.6	799.9	799.0	799.0	798.0	800.6	807.3	816.5	822.8	824.9	826.5
15°	811.3	811.1	807.7	802.6	796.3	794.2	799.9	810.0	818.4	822.8	824.6
17.5°	835.7	833.6	828.2	816.7	802.9	797.5	798.2	806.7	816.5	822.2	823.8
20°	880.1	880.1	868.7	847.1	822.5	809.7	803.7	808.7	818.1	825.9	828.2
22.5°	957.0	957.6	938.4	903.1	861.6	834.3	819.2	818.1	829.2	837.9	840.8
25°	1065.7	1063.1	1036.0	985.5	922.6	877.5	851.1	845.0	854.5	864.3	867.7
27.5°	1192.3	1182.6	1150.5	1089.6	1008.1	942.1	901.7	891.8	901.0	912.0	915.5
30°	1317.6	1307.6	1269.5	1202.8	1112.2	1028.6	970.7	954.9	967.7	983.6	985.5
32.5°	1442.9	1442.9	1400.5	1322.7	1224.0	1132.0	1062.7	1043.8	1065.0	1084.3	1088.6
35°	1592.9	1593.6	1552.5	1458.8	1352.7	1255.3	1178.8	1165.0	1197.0	1210.6	1220.9
37.5°	1777.0	1780.8	1727.9	1614.8	1498.6	1396.1	1305.1	1286.4	1318.4	1355.1	1388.7
40°	1976.1	1980.9	1922.6	1783.1	1667.0	1559.7	1461.5	1427.4	1480.6	1550.7	1594.1
42.5°	2166.2	2190.3	2134.2	1990.6	1865.6	1754.7	1655.1	1605.6	1672.4	1778.0	1815.8
45°	2440.5	2458.1	2360.0	2230.1	2112.5	1988.6	1856.5	1804.3	1897.6	2031.0	2038.8
47.5°	2623.5	2610.4	2560.4	2479.6	2405.2	2289.4	2090.6	2033.4	2157.3	2314.4	2270.8
50°	2720.8	2724.9	2718.1	2722.9	2725.5	2652.8	2377.6	2299.1	2447.1	2636.6	2536.5
52.5°	2811.8	2784.8	2807.1	2917.5	3051.0	3024.0	2689.9	2608.0	2757.5	2994.3	2817.5
55°	2809.8	2768.7	2841.1	3036.1	3325.4	3356.3	3040.5	2946.1	3085.9	3377.9	3115.2
57.5°	2710.4	2712.4	2823.9	3079.2	3516.8	3668.9	3447.3	3305.9	3434.2	3766.7	3387.1
60°	2573.6	2592.1	2752.9	3072.2	3669.9	3925.4	3946.6	3693.6	3775.3	4119.9	3612.1
62.5°	2353.0	2372.6	2594.1	2998.7	3646.7	4172.2	4397.8	4133.5	4132.2	4334.2	3678.1
65°	2005.0	1999.4	2232.1	2724.2	3451.7	4354.8	4846.1	4513.8	4400.8	4337.6	3545.4
67.5°	1478.6	1453.1	1652.8	2074.8	2869.0	4150.3	5109.9	4711.8	4492.6	4052.3	3139.8
70°	767.3	741.7	903.3	1211.5	1886.9	3239.2	4817.9	4609.4	4290.0	3396.9	2459.7
72.5°	328.2	323.7	389.3	531.4	912.8	1868.4	3777.7	3989.6	3681.2	2530.9	1691.1
75°	220.7	219.2	243.9	289.7	410.5	758.2	2364.1	2831.9	2693.2	1569.2	951.1
77.5°	173.2	171.4	185.9	208.1	266.1	299.0	1049.2	1520.4	1407.3	683.2	416.4
80°	135.5	134.0	143.1	155.2	191.2	188.6	345.3	604.9	468.1	261.6	202.4
82.5°	106.8	106.8	114.2	114.5	135.7	128.6	180.2	266.4	233.7	152.6	124.0
85°	97.6	97.6	105.5	85.6	88.7	81.1	111.7	157.9	148.2	62.6	53.9
87.5°	49.1	47.8	88.7	75.7	48.1	43.1	54.5	76.4	82.1	34.7	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269106

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3-7027-600

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9
2.5°	855.8	855.5	856.2	856.5	859.1	862.9	864.6	867.0	868.3	867.7
5°	845.8	846.5	849.1	851.1	855.8	862.0	865.2	868.0	870.4	869.3
7.5°	837.3	838.9	843.1	844.8	847.5	849.1	848.8	849.7	851.9	849.4
10°	832.5	834.6	837.7	835.3	829.0	819.9	811.3	806.9	808.4	806.7
12.5°	827.9	830.7	828.2	817.1	799.3	787.5	781.0	781.7	784.8	785.5
15°	825.3	826.3	816.1	795.2	777.0	775.3	778.7	778.0	778.4	778.4
17.5°	825.3	822.5	803.7	782.8	775.0	772.1	761.6	748.4	742.7	740.7
20°	829.6	822.5	799.6	785.7	768.9	743.0	715.4	691.2	680.3	677.3
22.5°	842.7	830.7	811.1	787.2	739.3	695.8	652.1	623.2	603.7	600.2
25°	869.3	855.8	833.6	769.3	692.1	630.3	580.3	548.0	528.5	525.8
27.5°	915.8	907.1	845.8	730.0	629.5	563.1	517.1	492.1	477.5	476.6
30°	985.9	981.5	839.6	671.7	552.4	498.2	475.9	461.4	450.7	450.3
32.5°	1097.6	1062.3	819.9	600.5	482.0	451.9	443.0	434.2	425.7	425.7
35°	1241.5	1127.6	782.2	524.4	439.2	426.4	414.9	401.2	390.0	389.3
37.5°	1410.6	1168.1	714.4	463.2	419.0	409.3	392.4	371.9	352.3	348.9
40°	1581.3	1180.3	619.1	425.3	406.3	392.1	371.4	347.3	328.4	327.4
42.5°	1738.0	1156.9	518.1	399.4	393.4	374.6	352.9	331.5	316.7	316.3
45°	1869.4	1096.7	433.2	375.0	380.0	358.8	339.5	322.0	310.5	308.2
47.5°	1993.0	1011.5	373.5	348.9	366.5	350.0	333.8	317.3	306.1	304.4
50°	2136.4	919.5	331.7	323.7	354.7	346.9	338.5	321.4	302.8	300.8
52.5°	2310.3	840.0	299.0	301.4	345.6	351.0	350.6	332.8	300.5	297.8
55°	2504.3	751.8	274.5	283.2	341.9	358.3	353.7	343.5	302.5	298.4
57.5°	2695.3	648.8	257.4	269.4	336.4	357.7	339.2	324.6	307.2	301.4
60°	2838.4	510.2	244.2	257.4	324.6	346.6	323.3	304.2	306.1	301.8
62.5°	2847.7	394.4	228.3	246.9	306.9	335.4	312.9	295.1	310.5	306.5
65°	2680.5	298.1	213.2	234.4	287.6	328.4	302.8	290.1	319.6	315.2
67.5°	2256.7	239.8	200.4	221.6	268.5	313.6	293.7	285.3	327.7	319.9
70°	1629.2	204.5	187.9	206.2	251.3	296.7	285.7	276.9	305.9	293.7
72.5°	1003.0	177.1	173.8	185.6	238.1	279.3	273.5	261.0	275.5	265.8
75°	500.9	153.6	157.9	165.4	219.5	259.3	253.3	240.8	242.8	240.8
77.5°	239.8	131.3	139.4	145.2	195.7	236.9	230.3	217.6	215.2	215.6
80°	152.0	109.9	117.6	121.6	174.8	210.6	204.2	191.2	218.3	202.4
82.5°	95.0	89.2	91.3	98.8	152.3	183.3	174.8	163.3	196.6	155.5
85°	52.6	62.3	64.9	71.4	117.1	153.3	144.8	130.3	116.9	114.9
87.5°	31.4	37.0	38.1	42.8	78.8	110.9	98.1	93.0	77.2	76.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)