

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: P268988

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-SL2-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4286.1 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

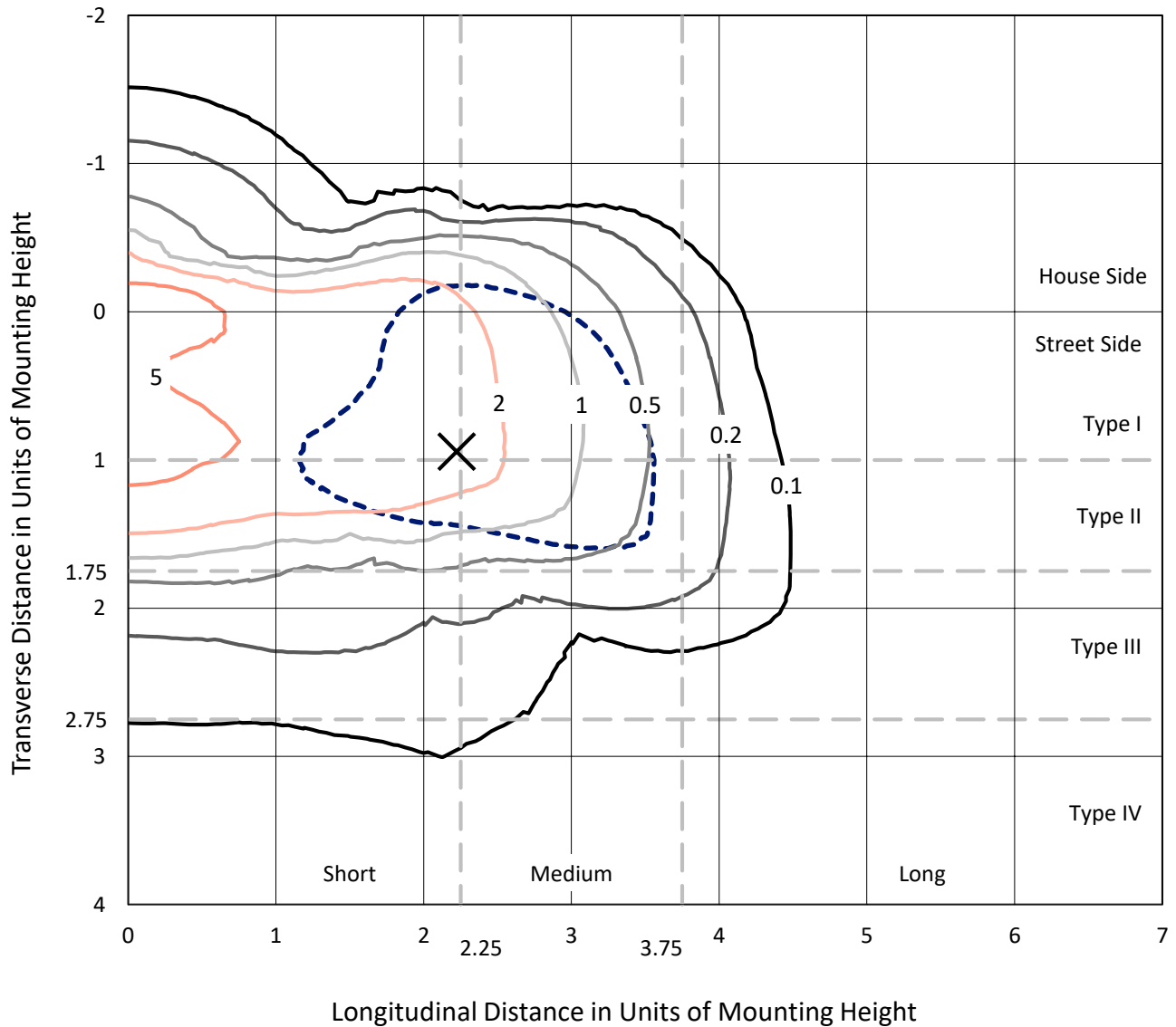


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

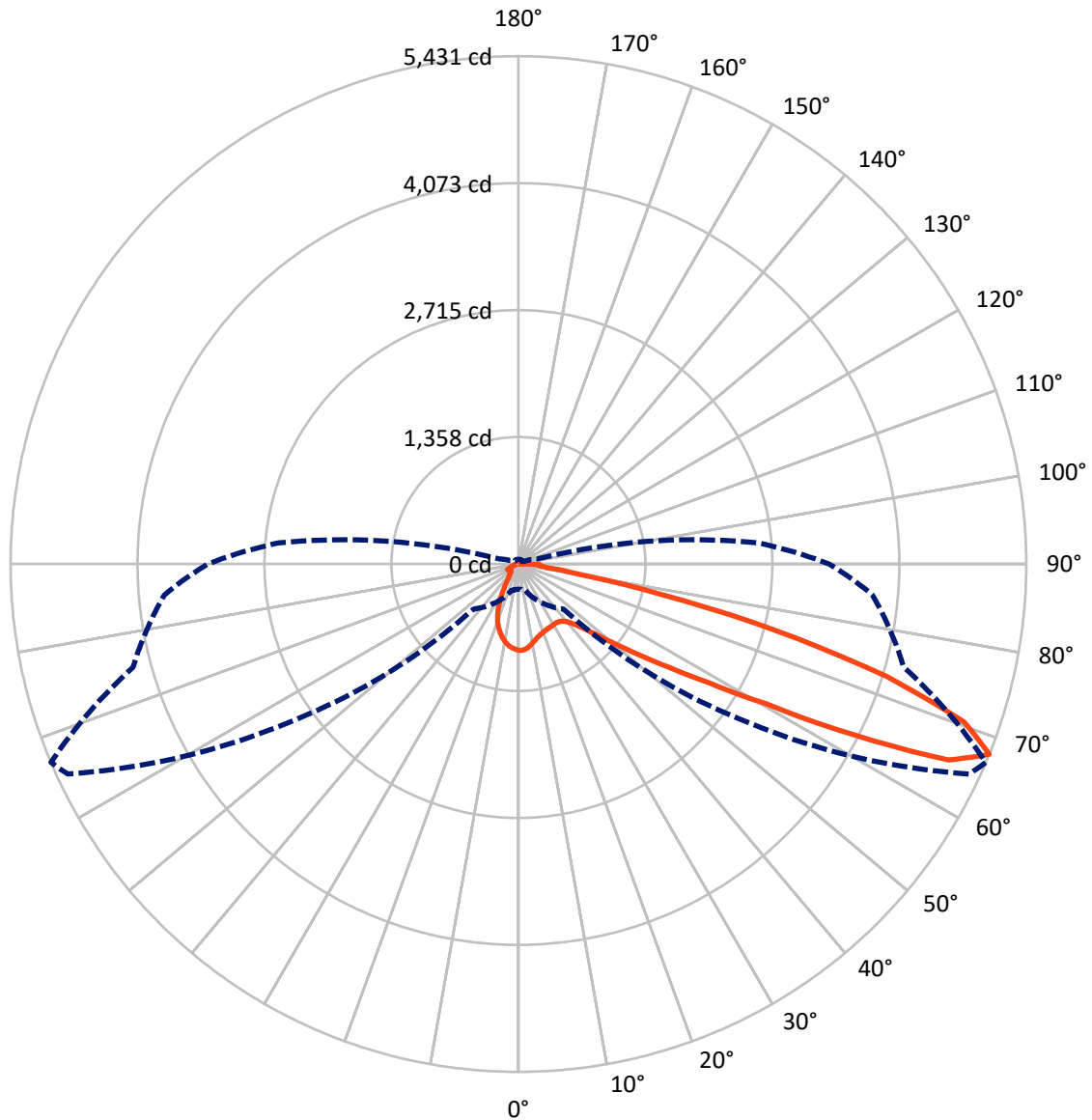


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	710.2	0.0	710.2
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	3576.0	0.0	3576.0
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	4286.1	0.0	4286.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	1.8
10°-20°	182.5	4.3
20°-30°	247.4	5.8
30°-40°	351.7	8.2
40°-50°	588.4	13.7
50°-60°	930.8	21.7
60°-70°	1185.8	27.7
70°-80°	621.1	14.5
80°-90°	99.6	2.3
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°	4286.1	100.0
0°-180°	4286.1	100.0



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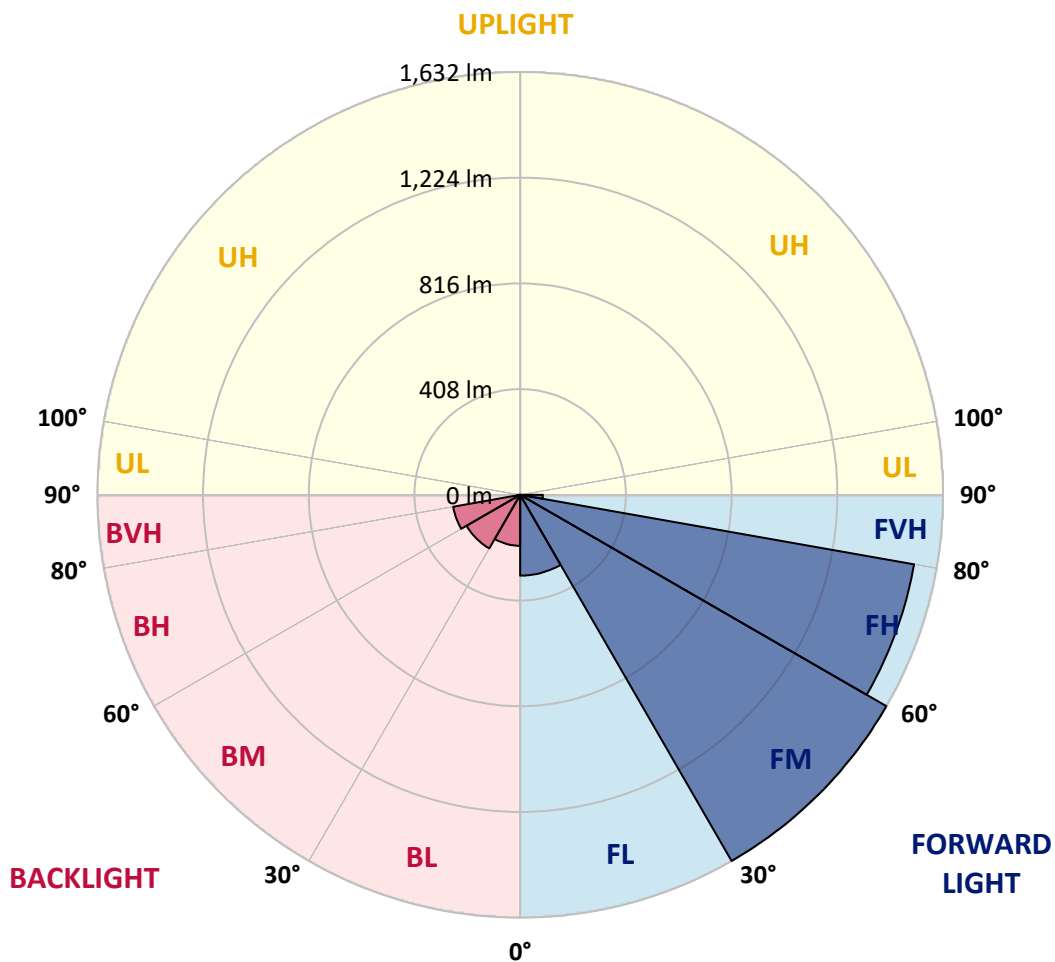
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.9	7.3			
FM (30°-60°)	1632.2	38.1			
FH (60°-80°)	1544.2	36.0			G1/1800
FVH (80°-90°)	87.6	2.0			G1/100
BL (0°-30°)	196.8	4.6	B1/500		
BM (30°-60°)	238.6	5.6	B1/1000		
BH (60°-80°)	262.7	6.1	B1/500		G1/500
BVH (80°-90°)	12.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5
2.5°	886.4	888.0	892.6	895.5	908.8	914.6	918.5	922.6	923.3	925.2	923.3
5°	793.5	796.6	805.3	815.0	840.9	861.0	882.5	904.7	908.6	923.0	927.1
7.5°	721.3	720.5	727.7	739.3	765.7	793.9	831.3	875.5	884.1	916.5	932.1
10°	668.8	668.1	675.7	687.8	713.0	739.6	781.9	842.3	854.6	906.1	937.0
12.5°	629.9	630.2	637.6	651.0	676.6	703.5	746.3	810.1	825.8	894.1	942.1
15°	604.1	605.7	611.8	626.1	651.0	677.9	719.9	786.0	803.7	884.6	947.7
17.5°	595.3	598.1	600.2	610.7	632.0	658.8	700.0	768.3	786.9	878.1	952.8
20°	603.4	606.6	602.7	606.1	619.7	643.4	684.4	754.3	773.4	870.5	953.6
22.5°	637.8	640.9	629.1	618.7	617.9	632.1	671.6	743.3	763.0	865.1	953.7
25°	698.5	700.5	680.6	656.5	633.0	628.2	662.4	735.7	756.7	860.2	949.7
27.5°	772.9	774.5	751.6	716.0	669.0	637.6	659.3	731.3	753.0	856.1	943.0
30°	863.5	870.4	839.7	794.9	726.3	665.9	665.6	729.1	749.0	848.9	929.6
32.5°	955.9	959.0	937.8	892.3	803.4	715.3	683.3	730.7	748.0	840.2	912.7
35°	1049.8	1053.6	1039.9	1003.3	908.8	787.8	718.0	740.7	754.5	837.2	900.8
37.5°	1171.4	1176.5	1157.5	1115.2	1037.2	886.1	775.6	765.5	774.7	845.7	897.2
40°	1363.4	1361.2	1305.5	1242.6	1177.5	1011.9	858.2	807.8	813.1	873.0	908.2
42.5°	1587.1	1581.5	1485.6	1386.8	1331.7	1163.9	967.3	881.1	880.1	926.6	947.0
45°	1765.4	1760.9	1674.6	1552.7	1508.8	1337.2	1108.1	990.4	982.7	1011.9	1018.4
47.5°	1862.1	1862.4	1812.7	1713.1	1712.1	1557.5	1289.2	1148.6	1135.0	1148.8	1141.7
50°	1828.3	1832.7	1827.4	1795.7	1897.6	1846.2	1525.9	1368.9	1341.8	1355.3	1328.5
52.5°	1664.6	1670.4	1701.7	1750.3	1975.6	2195.2	1873.3	1642.9	1611.2	1606.3	1576.5
55°	1374.8	1381.8	1445.6	1577.7	1910.8	2429.6	2421.7	1992.1	1941.5	1895.8	1883.0
57.5°	947.5	959.2	1061.8	1258.0	1700.9	2500.4	3074.4	2489.9	2387.2	2227.0	2230.0
60°	534.1	547.6	668.8	846.9	1277.3	2423.4	3571.2	3243.8	3027.0	2614.7	2636.7
62.5°	339.6	354.2	446.2	588.4	766.4	2009.1	3774.8	4291.9	4016.5	3093.0	3114.5
65°	275.1	281.3	324.6	485.8	556.5	1210.5	3620.3	5155.5	5052.6	3699.7	3599.1
67.5°	268.5	270.6	292.9	407.7	533.8	680.3	2887.6	5316.9	5430.9	4266.4	3801.0
70°	265.3	272.6	330.1	389.1	511.0	573.8	1735.3	4874.3	5054.1	4414.5	3532.3
72.5°	128.6	128.3	166.1	352.0	575.8	595.1	891.6	3943.9	4124.4	3824.7	2902.7
75°	103.8	95.0	90.6	128.9	553.5	614.6	568.2	2713.7	2844.4	2564.3	1784.4
77.5°	98.5	87.9	80.5	80.8	234.0	651.8	481.3	1502.0	1540.1	1158.3	488.9
80°	81.6	71.9	66.6	75.1	113.2	620.8	520.4	679.7	623.8	284.6	162.8
82.5°	56.7	51.6	50.0	63.1	90.6	442.3	605.2	365.3	306.2	142.4	100.4
85°	36.1	30.8	34.2	45.9	70.5	204.2	623.3	284.8	226.4	90.5	56.7
87.5°	16.7	13.6	16.9	25.3	46.1	70.3	593.2	319.7	233.1	47.8	35.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5	924.5
2.5°	925.0	920.9	917.8	911.8	905.3	898.9	893.3	886.1	883.9	882.0	885.0
5°	927.9	923.8	912.3	894.1	874.1	855.1	836.3	820.3	810.5	804.9	808.0
7.5°	932.4	926.6	902.5	869.1	833.0	800.0	766.0	738.8	718.6	709.1	711.8
10°	936.4	925.3	886.1	836.0	783.1	734.0	680.3	636.0	603.0	585.6	589.8
12.5°	938.0	920.6	863.0	794.6	722.0	650.2	571.1	504.8	457.3	440.1	436.4
15°	939.7	915.1	837.6	747.4	648.2	546.6	435.9	356.4	317.0	308.4	306.5
17.5°	940.2	905.5	809.0	696.2	561.8	423.5	298.0	247.6	247.8	261.6	263.4
20°	935.8	891.3	774.0	632.5	458.2	292.8	204.6	195.9	227.8	262.8	266.9
22.5°	925.6	872.6	734.5	558.4	339.6	192.7	158.3	167.9	209.0	251.7	256.6
25°	912.7	849.6	687.8	472.4	224.8	137.8	132.7	144.4	172.2	200.9	203.6
27.5°	895.2	822.7	635.3	374.0	146.1	113.5	116.9	124.8	136.2	148.8	150.0
30°	872.6	790.2	579.3	272.6	110.3	102.0	107.0	111.2	116.1	123.2	123.8
32.5°	846.6	759.2	521.8	188.4	97.8	96.2	100.0	102.0	105.9	110.3	110.8
35°	824.7	729.7	462.3	133.2	92.5	91.7	94.2	95.1	98.8	103.6	104.1
37.5°	812.2	705.4	400.7	107.3	89.0	87.8	89.2	89.2	94.2	101.5	102.4
40°	813.1	692.2	339.2	96.9	86.0	84.4	84.5	84.5	91.1	99.0	99.5
42.5°	836.1	695.6	284.8	93.1	83.7	81.7	80.8	81.3	86.9	91.9	92.3
45°	890.3	719.5	233.6	90.5	81.3	80.8	78.4	78.2	80.3	82.6	82.6
47.5°	979.1	766.7	198.9	88.8	79.5	79.3	76.5	73.8	73.5	74.4	74.4
50°	1123.4	847.8	175.7	86.9	78.2	76.5	73.3	69.1	67.6	68.4	68.4
52.5°	1339.8	992.5	166.7	84.4	75.5	72.8	69.1	64.9	63.6	63.8	63.8
55°	1623.6	1214.9	165.5	81.3	72.6	68.0	65.0	62.0	60.5	60.8	60.8
57.5°	1970.5	1522.4	188.1	76.7	68.5	63.4	61.8	59.6	58.6	59.2	59.0
60°	2392.2	1924.9	279.1	71.9	64.5	59.2	59.2	57.5	56.7	57.3	57.0
62.5°	2877.9	2387.2	392.3	68.4	60.2	55.9	56.7	55.9	54.9	55.3	55.2
65°	3308.6	2688.4	367.3	65.5	56.1	52.6	54.1	53.7	53.1	53.4	53.3
67.5°	3321.2	2576.8	206.3	62.5	52.0	49.4	51.6	51.4	50.9	51.4	51.2
70°	2964.0	2175.8	116.2	57.0	47.8	45.6	48.6	48.4	48.0	48.8	48.6
72.5°	2374.7	1579.0	85.0	50.3	43.6	41.6	45.0	44.8	44.8	46.1	45.5
75°	1366.5	812.4	67.8	43.1	39.0	37.5	40.6	40.9	41.2	42.8	41.6
77.5°	389.5	253.2	55.3	36.7	33.5	33.0	35.9	36.3	36.7	38.4	36.8
80°	144.7	116.7	45.6	30.6	27.5	27.7	30.5	31.1	31.4	33.1	31.1
82.5°	92.3	77.0	37.0	23.6	21.6	21.4	24.8	25.6	25.6	25.8	24.6
85°	53.9	46.1	27.8	17.1	15.2	14.6	18.3	19.9	19.3	18.9	18.0
87.5°	36.1	31.7	17.1	9.5	8.3	7.8	10.8	11.9	11.4	10.8	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)