

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: P319785

Luminaire Tested: **GLEON-SA1A-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1A-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3587 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

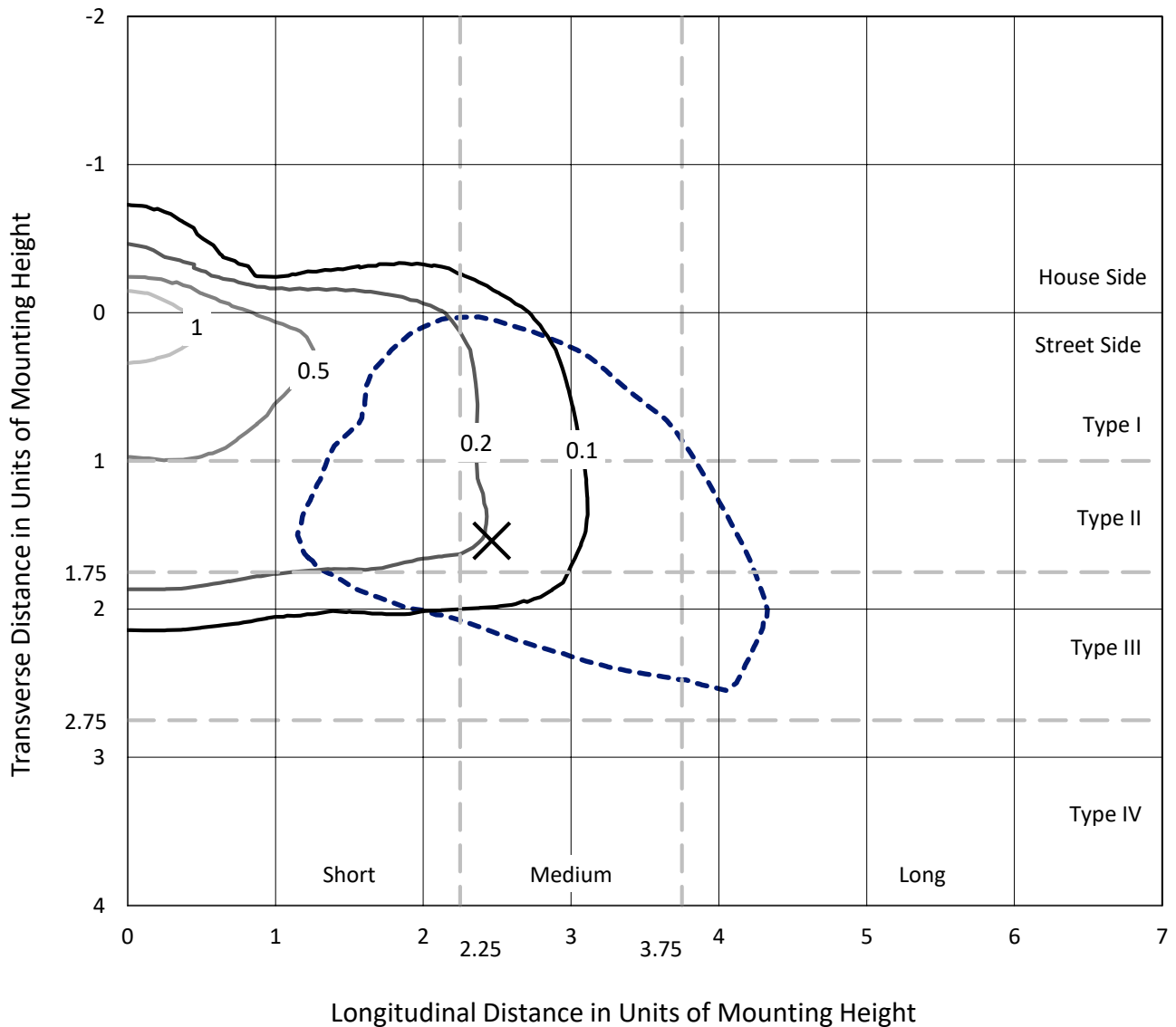
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

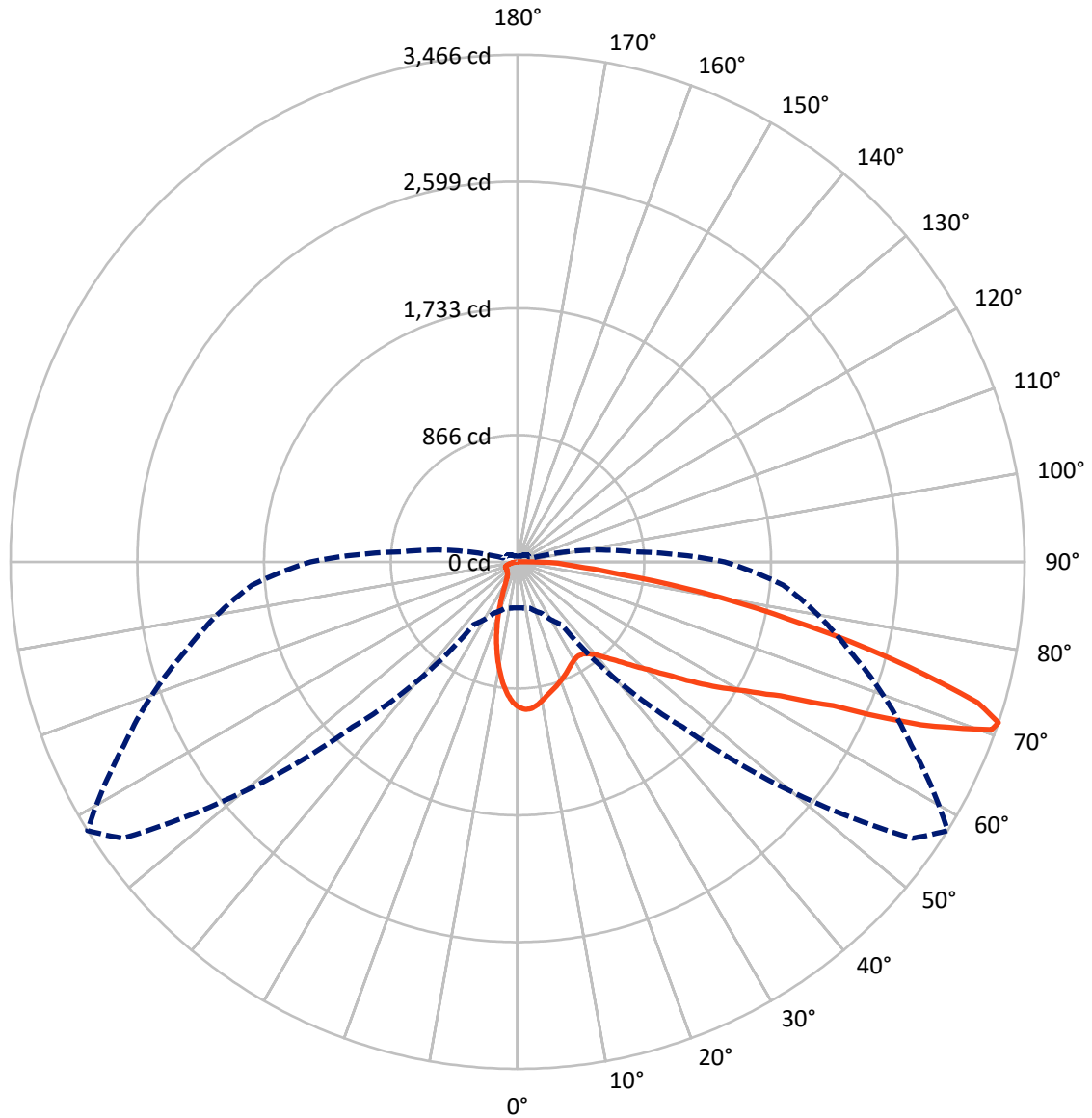
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	536.3	0.0	536.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	3050.7	0.0	3050.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	3587.0	0.0	3587.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	2.4
10°-20°	190.6	5.3
20°-30°	242.3	6.8
30°-40°	308.6	8.6
40°-50°	437.7	12.2
50°-60°	677.3	18.9
60°-70°	922.1	25.7
70°-80°	615.1	17.1
80°-90°	107.5	3.0
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°	3587.0	100.0
0°-180°	3587.0	100.0

**Coefficient of Utilization**



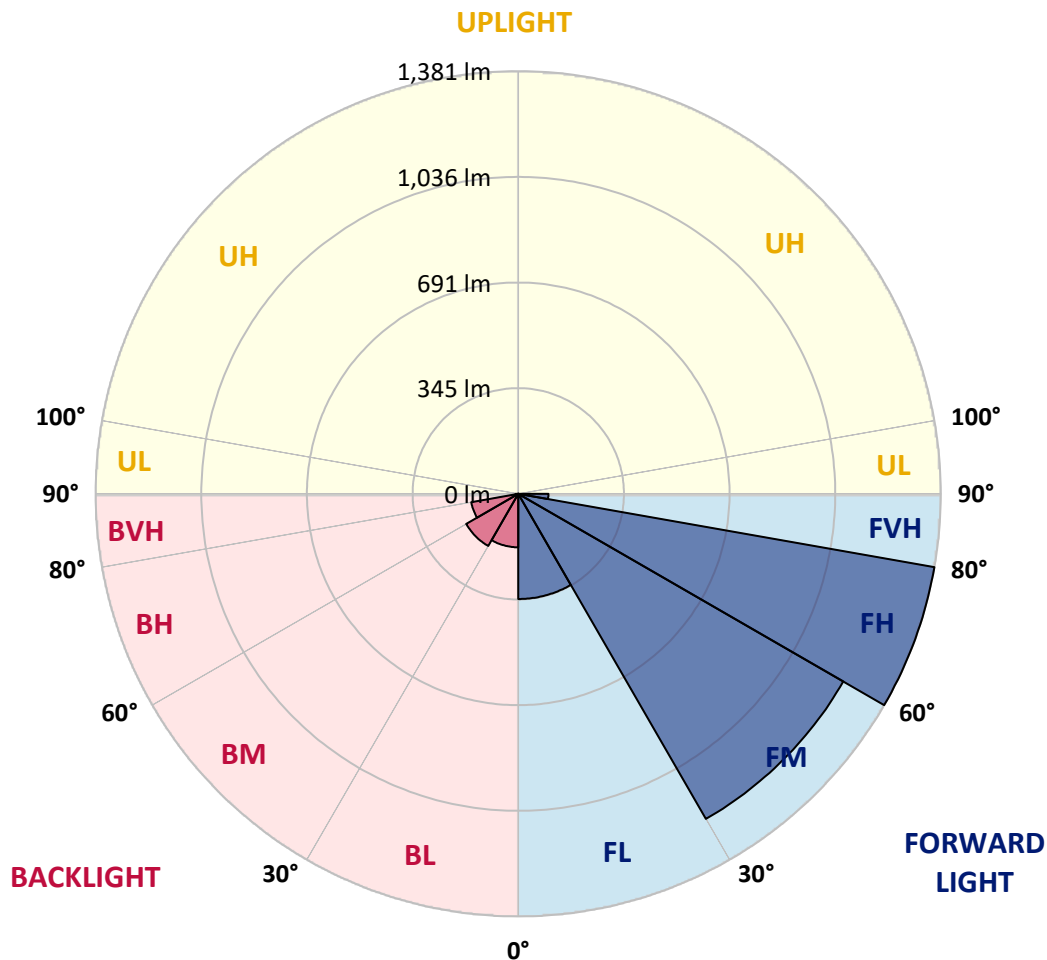
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.9	9.6			
FM (30°-60°)	1226.9	34.2			
FH (60°-80°)	1381.3	38.5			G1/1800
FVH (80°-90°)	98.6	2.7			G1/100
BL (0°-30°)	174.8	4.9	B1/500		
BM (30°-60°)	196.7	5.5	B0/220		
BH (60°-80°)	155.9	4.3	B1/500		G1/500
BVH (80°-90°)	8.9	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8
2.5°	1020.2	1018.8	1019.3	1018.3	1016.0	1013.6	1010.1	1010.7	1005.8	998.6	989.6
5°	1001.0	1000.5	1004.2	1006.3	1008.1	1006.7	1005.7	1007.0	999.8	989.8	974.2
7.5°	960.6	955.1	959.9	967.0	973.7	978.8	985.6	986.5	982.0	971.5	951.0
10°	903.3	898.0	905.0	916.1	929.6	941.9	955.5	958.0	958.9	949.4	924.5
12.5°	843.8	839.8	846.8	862.4	884.8	903.6	925.4	929.1	936.9	930.5	900.0
15°	790.5	789.0	797.5	812.9	838.7	867.5	898.9	905.8	918.9	916.7	880.9
17.5°	744.6	744.2	750.7	766.8	795.3	831.8	872.5	884.1	903.6	906.1	865.1
20°	710.3	709.6	714.1	725.9	755.3	796.7	844.0	860.0	888.1	896.9	848.9
22.5°	692.0	691.8	692.0	697.6	721.6	760.1	816.3	835.8	873.0	889.5	830.9
25°	688.8	688.5	685.7	685.1	698.7	729.4	788.8	810.3	858.6	884.4	813.8
27.5°	697.0	697.5	693.8	688.0	690.7	709.3	764.9	787.9	847.1	883.4	801.9
30°	713.8	713.6	710.5	704.3	699.0	701.8	747.9	770.9	839.4	887.8	793.8
32.5°	732.4	733.8	733.2	729.8	721.8	710.3	742.8	765.3	837.2	898.3	790.3
35°	754.8	756.3	760.8	763.4	754.1	735.6	753.8	773.3	843.7	918.0	795.9
37.5°	776.1	779.9	792.5	803.7	795.7	775.1	783.1	796.9	863.8	949.1	811.0
40°	800.5	803.9	824.5	848.1	846.9	825.5	830.2	839.4	899.3	993.7	838.4
42.5°	824.7	831.4	861.3	894.8	904.4	885.5	892.9	897.8	949.2	1052.8	886.1
45°	856.8	864.0	905.5	945.9	968.3	957.7	969.5	971.3	1012.1	1133.3	955.5
47.5°	905.4	913.6	962.0	1004.3	1038.7	1039.8	1059.2	1058.4	1090.5	1225.4	1042.8
50°	981.1	993.0	1032.6	1072.2	1113.9	1137.2	1163.0	1159.4	1184.6	1323.5	1143.4
52.5°	1080.3	1085.8	1115.2	1144.4	1196.3	1248.4	1285.5	1282.2	1291.3	1424.3	1257.6
55°	1183.1	1187.3	1199.4	1215.4	1285.1	1370.1	1448.5	1443.4	1420.3	1529.0	1370.4
57.5°	1275.6	1284.0	1292.3	1299.0	1374.6	1497.3	1615.3	1615.7	1560.2	1641.9	1487.0
60°	1290.0	1297.3	1352.7	1404.9	1527.6	1666.9	1793.9	1790.1	1705.0	1764.5	1617.0
62.5°	1140.3	1156.9	1249.4	1388.3	1675.1	1977.3	2021.7	2017.0	1878.2	1915.6	1768.3
65°	817.2	836.0	947.6	1156.4	1603.6	2319.3	2432.7	2370.5	2114.4	2101.4	1945.4
67.5°	471.4	475.9	524.3	692.0	1221.0	2337.2	3059.9	2972.8	2481.1	2312.2	2032.2
70°	348.6	348.5	360.0	425.8	660.7	1907.5	3358.1	3436.2	2867.2	2381.5	1909.6
71°	315.2	315.6	328.5	387.6	523.3	1596.6	3294.8	3465.7	2968.9	2347.3	1820.9
72.5°	269.6	270.9	288.8	347.6	440.2	1101.0	3021.9	3288.8	3017.1	2262.8	1682.1
75°	204.5	207.4	232.2	293.0	402.3	558.4	2217.8	2626.2	2680.3	1996.7	1249.9
77.5°	145.9	149.2	177.2	246.4	382.5	420.8	1485.3	1915.6	1972.4	1279.6	563.8
80°	92.2	96.1	117.2	196.0	359.4	399.6	933.4	1287.6	1075.6	409.5	143.4
82.5°	54.1	57.1	72.7	128.1	293.5	384.8	549.1	713.7	418.6	123.7	65.2
85°	31.4	32.7	45.4	81.6	213.2	363.2	403.5	399.0	181.7	60.5	30.9
87.5°	14.6	16.2	26.9	42.6	118.3	263.3	318.9	275.5	113.0	28.4	14.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8
2.5°	985.2	983.1	974.2	966.4	958.1	947.4	935.5	934.0	926.7	928.1	925.6
5°	965.7	960.4	939.0	919.6	896.8	876.3	854.0	843.8	829.0	828.0	824.3
7.5°	937.9	927.9	894.8	858.0	821.3	786.3	751.7	728.9	705.7	695.8	695.0
10°	906.5	889.5	840.8	786.4	733.4	682.3	632.9	596.3	563.3	547.6	547.0
12.5°	876.8	851.6	784.8	710.8	638.4	572.1	504.3	456.2	414.8	401.0	395.1
15°	851.5	816.2	730.3	635.7	547.8	455.8	378.6	328.0	289.8	276.5	274.0
17.5°	827.0	781.6	674.5	559.9	453.6	352.5	275.1	237.5	217.2	211.8	211.7
20°	802.7	745.9	616.1	482.3	362.5	263.6	211.5	194.7	187.8	187.2	186.2
22.5°	775.1	708.2	554.8	404.5	282.9	207.3	179.8	173.1	172.2	174.4	174.4
25°	749.2	670.7	492.5	328.2	220.0	172.9	160.6	159.2	161.6	165.6	165.9
27.5°	725.1	634.6	431.8	260.5	176.3	152.3	147.2	148.8	153.1	157.7	157.8
30°	705.2	600.5	372.8	205.3	148.9	136.9	136.1	139.3	143.9	147.6	148.4
32.5°	689.8	571.4	315.9	165.1	131.1	125.4	126.2	128.9	131.8	133.8	135.2
35°	682.7	546.4	263.3	139.2	119.7	116.6	117.6	119.1	120.3	121.8	122.9
37.5°	684.0	527.0	216.3	123.1	112.1	110.5	110.5	110.5	110.5	111.2	111.3
40°	695.6	515.9	178.1	112.8	107.0	105.2	103.8	102.6	101.6	102.1	101.8
42.5°	725.3	514.9	150.1	106.3	102.8	100.0	97.2	95.5	94.2	94.7	95.0
45°	775.8	527.4	131.2	101.7	99.0	94.6	91.1	89.2	88.3	90.0	90.2
47.5°	841.2	554.6	119.7	98.3	95.3	89.6	85.8	84.1	84.3	86.7	87.3
50°	925.4	598.9	114.2	96.2	92.8	85.3	81.5	80.0	80.7	84.1	84.8
52.5°	1017.8	662.6	114.8	95.6	91.2	82.2	78.1	76.3	77.6	80.7	81.3
55°	1124.5	739.2	125.2	96.5	88.8	80.2	75.3	72.3	73.3	76.2	76.7
57.5°	1243.1	826.9	146.1	96.2	85.8	78.3	72.5	68.0	68.7	70.5	71.0
60°	1366.6	932.9	178.4	97.0	84.5	76.1	68.6	63.0	62.7	64.2	64.5
62.5°	1514.7	1055.4	215.4	97.5	85.3	73.2	63.5	58.0	57.2	57.6	57.9
65°	1667.4	1144.2	201.5	95.5	88.1	70.8	59.0	53.1	51.7	51.5	51.6
67.5°	1672.2	1049.1	141.3	91.5	89.2	69.6	55.6	49.0	46.7	45.9	45.7
70°	1499.6	852.3	110.1	87.2	84.7	67.6	52.5	45.6	42.2	40.9	40.7
71°	1415.4	784.6	104.3	85.1	81.3	65.6	51.1	44.1	40.6	39.1	38.9
72.5°	1283.3	703.3	97.3	81.7	74.8	60.5	48.5	42.0	38.4	36.6	36.2
75°	921.0	459.9	83.6	72.8	62.0	48.2	42.5	37.7	34.6	32.5	32.2
77.5°	354.9	183.0	63.2	60.6	47.5	37.7	35.0	32.6	30.4	28.2	28.1
80°	109.7	81.8	46.1	45.6	34.4	28.1	27.2	26.6	25.7	23.5	23.0
82.5°	58.6	47.0	31.7	29.5	22.5	18.7	19.7	20.0	20.1	17.7	17.5
85°	28.0	24.9	17.9	16.7	13.1	10.5	12.1	13.1	13.2	10.9	10.1
87.5°	13.4	13.0	8.4	6.4	4.9	3.5	4.2	5.2	5.7	4.1	3.6
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)