

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: P450344

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-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: 3372 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

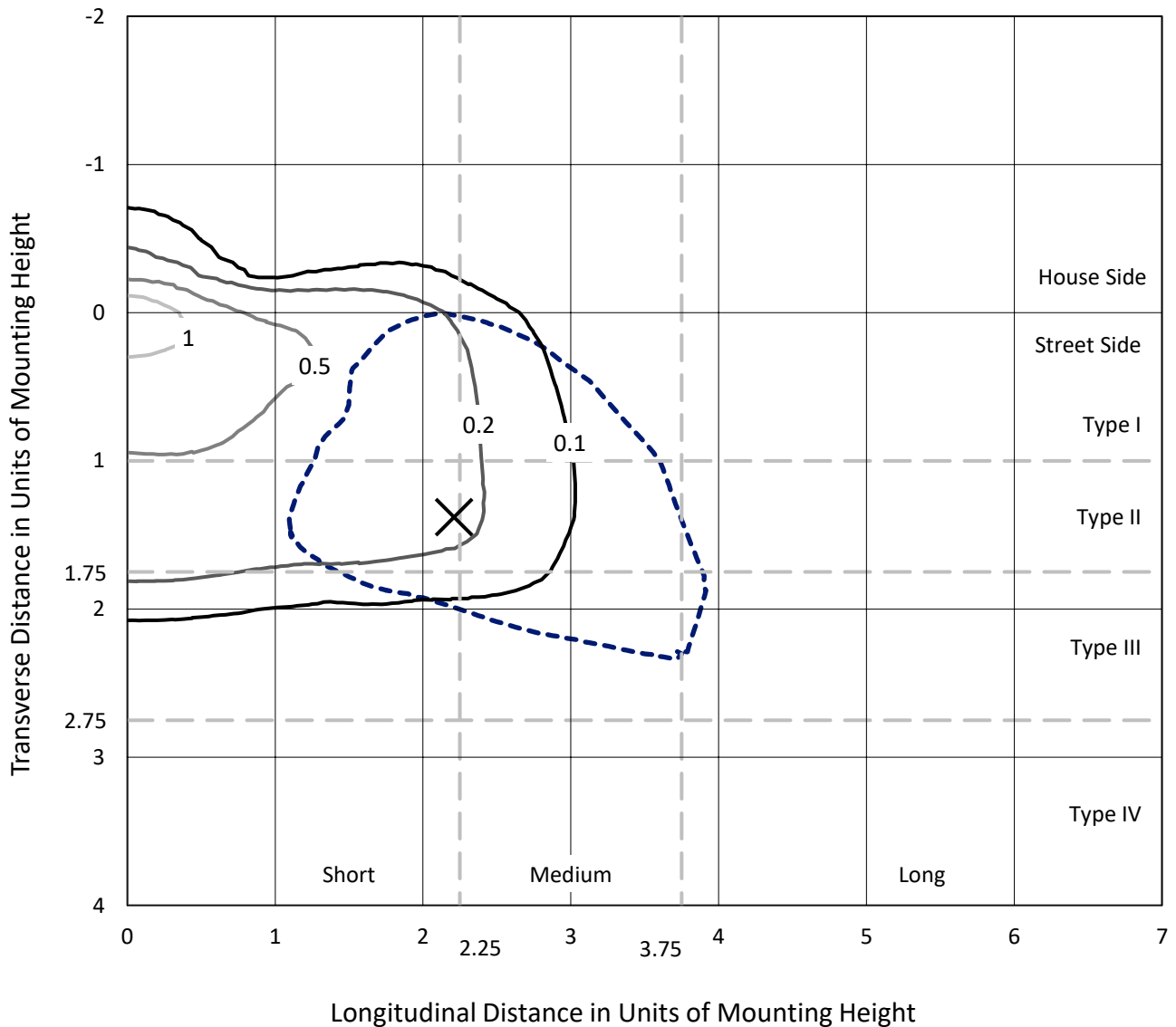
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

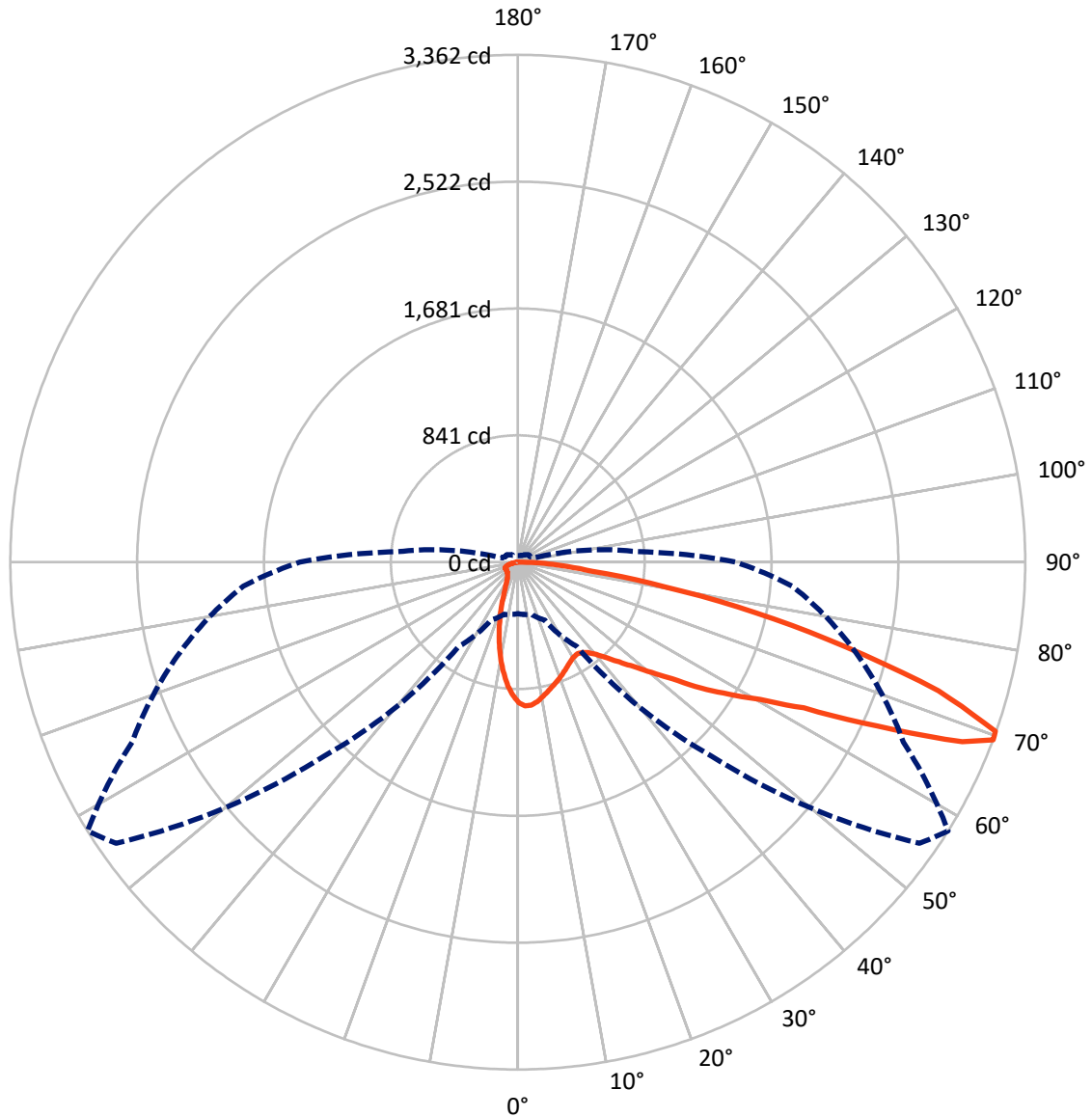
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	494.2	0.0	494.2
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	2877.8	0.0	2877.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	3372.0	0.0	3372.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	2.3
10°-20°	173.8	5.2
20°-30°	224.5	6.7
30°-40°	291.6	8.6
40°-50°	423.9	12.6
50°-60°	676.5	20.1
60°-70°	903.7	26.8
70°-80°	520.9	15.4
80°-90°	78.0	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°	3372.0	100.0
0°-180°	3372.0	100.0

**Coefficient of Utilization**



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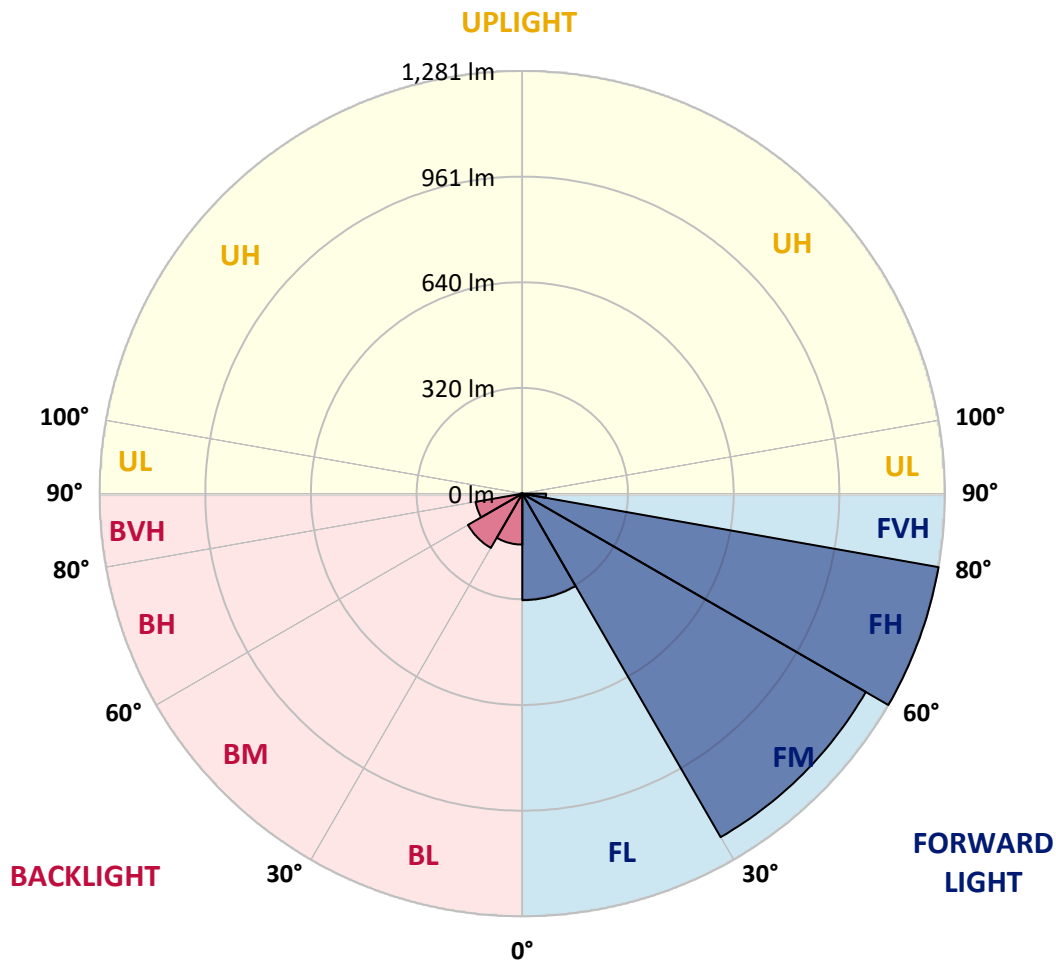
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.0	9.6			
FM (30°-60°)	1201.9	35.6			
FH (60°-80°)	1280.9	38.0			G1/1800
FVH (80°-90°)	72.0	2.1			G1/100
BL (0°-30°)	154.5	4.6	B1/500		
BM (30°-60°)	190.0	5.6	B0/220		
BH (60°-80°)	143.7	4.3	B1/500		G1/500
BVH (80°-90°)	6.0	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8
2.5°	966.4	969.1	968.3	967.4	965.9	961.7	955.0	953.8	949.5	940.3	928.8
5°	951.6	953.8	954.0	955.3	957.2	956.5	951.6	951.0	944.6	932.2	913.0
7.5°	900.6	903.6	910.2	917.5	924.1	930.3	931.8	932.8	928.8	914.5	888.9
10°	843.2	846.3	849.3	860.2	876.3	891.8	904.6	906.2	907.2	894.0	862.8
12.5°	779.7	785.9	792.3	808.5	830.1	854.3	876.9	880.5	886.9	876.9	840.2
15°	725.7	732.1	741.3	755.8	781.9	816.9	848.7	854.5	867.1	862.1	819.2
17.5°	688.3	690.5	696.9	713.5	741.7	778.6	821.1	832.7	852.8	851.5	801.1
20°	658.8	661.6	665.5	675.7	705.0	744.0	795.3	810.3	837.6	842.1	783.3
22.5°	646.4	648.4	647.9	653.3	673.2	712.4	769.2	787.0	824.1	835.7	766.7
25°	647.1	649.0	646.2	644.8	656.7	684.5	741.9	764.6	813.2	831.4	751.7
27.5°	659.7	661.0	655.8	650.5	651.4	667.2	719.3	744.5	803.9	833.3	739.1
30°	676.6	679.1	675.7	669.3	662.3	663.1	704.8	729.7	799.6	839.9	733.0
32.5°	698.4	700.7	699.2	694.1	685.1	675.1	701.3	724.2	800.0	853.2	731.7
35°	721.4	725.9	728.3	728.0	720.6	703.3	715.4	734.4	809.0	875.6	739.4
37.5°	747.3	751.1	761.6	768.4	761.6	741.5	747.2	760.3	829.0	907.9	756.4
40°	772.5	778.2	793.6	814.7	812.0	794.4	795.7	804.3	864.1	956.1	789.5
42.5°	798.9	805.6	832.5	863.7	870.0	856.2	859.8	867.5	914.1	1022.8	846.3
45°	832.7	840.8	873.9	912.8	937.3	928.8	939.0	942.7	981.1	1109.7	921.1
47.5°	876.3	885.7	926.6	975.1	1009.7	1017.4	1035.1	1032.8	1064.0	1212.6	1018.1
50°	949.9	955.1	993.7	1043.2	1090.7	1125.5	1144.7	1148.3	1166.9	1312.6	1126.7
52.5°	1037.3	1042.0	1069.9	1113.1	1172.7	1246.4	1293.8	1282.2	1286.7	1434.5	1253.6
55°	1135.7	1143.6	1161.3	1190.0	1267.3	1375.8	1471.0	1473.8	1423.8	1551.1	1375.3
57.5°	1211.8	1225.2	1255.5	1296.5	1394.4	1519.7	1647.6	1649.4	1585.5	1675.6	1509.5
60°	1173.5	1189.3	1258.5	1358.3	1561.3	1770.7	1858.6	1847.8	1742.9	1817.4	1673.3
62.5°	1008.0	1010.8	1111.4	1267.5	1612.6	2106.6	2172.6	2127.3	1953.0	1997.2	1839.8
65°	652.4	670.8	750.5	969.2	1443.9	2293.0	2722.9	2618.1	2247.5	2201.2	1979.1
67.5°	411.8	407.1	440.2	553.5	993.1	2128.8	3192.5	3175.9	2632.6	2330.0	1945.8
69°	341.5	346.8	358.1	424.3	683.4	1817.6	3247.9	3362.3	2819.4	2319.9	1824.9
70°	309.7	312.2	324.0	376.1	527.3	1522.3	3156.9	3357.2	2892.7	2277.4	1737.3
72.5°	245.8	245.6	265.9	312.9	394.2	869.0	2592.2	2914.7	2810.7	2079.5	1435.4
75°	186.7	189.7	212.1	264.8	363.1	474.8	1808.9	2244.7	2244.8	1642.5	895.7
77.5°	134.6	136.5	162.7	222.3	342.1	385.0	1204.9	1610.0	1513.5	752.6	281.5
80°	88.2	89.3	109.3	176.0	308.4	363.1	714.4	985.4	713.9	199.7	93.1
82.5°	48.3	54.0	66.8	114.0	247.5	335.5	434.2	498.7	267.8	89.0	48.5
85°	24.3	25.8	37.6	66.6	161.7	277.6	302.4	286.0	138.2	44.2	25.2
87.5°	7.1	9.0	15.6	25.8	65.6	144.6	168.3	151.0	53.2	16.0	5.3
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°	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8	931.8
2.5°	924.1	920.7	905.7	892.1	879.7	866.6	855.5	845.7	846.6	846.8	836.9
5°	903.1	895.3	866.8	840.1	817.5	788.9	764.5	748.7	740.8	730.2	734.0
7.5°	874.5	859.6	819.9	775.5	734.0	696.9	656.7	629.1	611.4	594.3	596.5
10°	844.9	821.1	763.3	704.7	650.9	591.6	540.3	496.3	463.6	451.3	443.3
12.5°	814.7	783.3	709.9	631.9	557.6	486.7	413.9	366.7	330.6	311.4	313.9
15°	787.0	748.8	654.3	559.1	462.6	378.2	305.6	260.6	235.4	230.2	233.2
17.5°	761.4	711.4	602.2	488.4	375.7	283.6	229.6	204.2	194.1	191.3	191.1
20°	735.1	679.6	543.7	412.8	292.8	219.8	188.4	176.6	174.7	175.8	176.0
22.5°	708.4	640.3	483.5	337.8	233.2	179.8	164.7	161.5	163.0	165.7	166.1
25°	683.8	605.7	425.6	271.9	186.2	158.0	150.6	150.6	154.0	158.0	158.2
27.5°	663.5	572.3	367.8	215.9	155.9	142.2	139.7	141.0	145.7	148.8	148.9
30°	646.7	541.0	313.3	173.0	137.1	129.6	129.0	131.3	134.6	137.5	137.7
32.5°	634.1	513.6	262.3	145.4	124.1	120.0	119.8	121.5	123.4	124.1	124.9
35°	629.2	490.8	215.7	127.9	115.5	112.8	112.8	112.6	113.4	113.8	114.2
37.5°	633.2	473.3	179.6	116.6	109.1	107.2	106.1	104.9	104.6	104.6	104.7
40°	649.9	464.1	152.7	109.3	104.6	101.7	99.7	98.4	97.0	97.4	97.8
42.5°	685.5	465.8	134.5	104.4	100.6	96.7	93.7	92.1	91.2	92.3	92.1
45°	742.1	482.7	122.8	101.0	96.7	91.6	88.8	87.3	87.3	89.0	89.5
47.5°	821.2	515.1	116.6	98.4	93.7	87.6	84.8	83.7	84.1	86.9	87.1
50°	917.9	571.3	115.5	97.0	92.1	84.8	81.6	80.5	81.4	84.4	84.8
52.5°	1024.5	643.7	120.9	97.2	90.8	83.1	79.0	77.3	78.2	80.7	81.4
55°	1150.9	734.4	135.0	98.0	89.0	82.2	77.1	73.3	74.5	76.2	76.4
57.5°	1279.9	848.7	159.8	98.2	87.4	80.5	73.9	69.0	69.0	70.1	70.7
60°	1437.5	973.2	192.6	98.4	87.6	78.0	69.6	64.1	63.4	63.9	64.1
62.5°	1594.0	1077.4	198.0	97.8	89.5	75.6	64.9	59.2	57.9	57.7	57.4
65°	1663.0	1058.0	162.3	95.2	91.6	74.1	61.1	54.5	52.3	51.5	51.5
67.5°	1550.5	895.0	122.0	91.6	90.3	72.6	57.5	50.6	48.0	46.5	46.5
69°	1444.8	796.0	109.6	89.1	86.9	70.1	55.3	48.5	45.3	43.6	43.1
70°	1363.2	728.0	104.4	87.1	83.7	67.3	53.6	47.0	43.4	41.6	41.2
72.5°	1087.9	571.1	91.4	79.2	71.3	56.6	47.6	42.3	38.9	36.9	36.3
75°	627.0	309.5	75.8	68.8	57.4	44.0	40.2	36.9	34.2	32.3	31.8
77.5°	192.9	119.6	54.9	54.3	42.1	34.0	32.2	30.8	29.0	26.9	26.5
80°	81.2	60.9	37.2	36.7	28.0	23.7	23.1	22.9	22.2	20.5	19.9
82.5°	44.6	34.4	26.0	22.6	16.9	13.7	14.3	14.5	13.9	12.2	11.1
85°	21.8	18.8	12.6	10.2	7.7	4.9	4.7	5.6	5.3	3.8	4.1
87.5°	4.3	5.3	3.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
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)