

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: P450574

Luminaire Tested: **GALN-SA1B-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4225 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

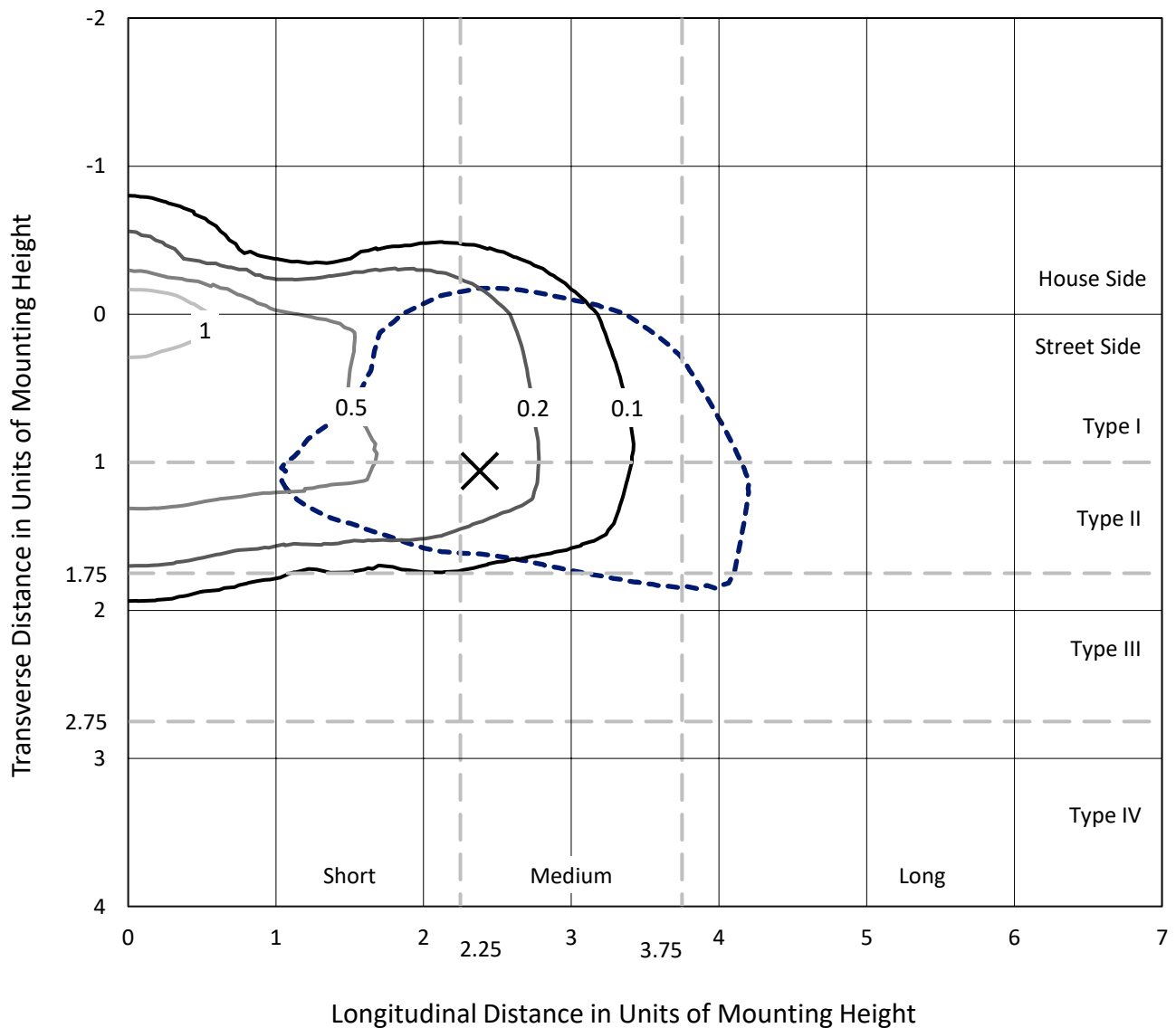
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

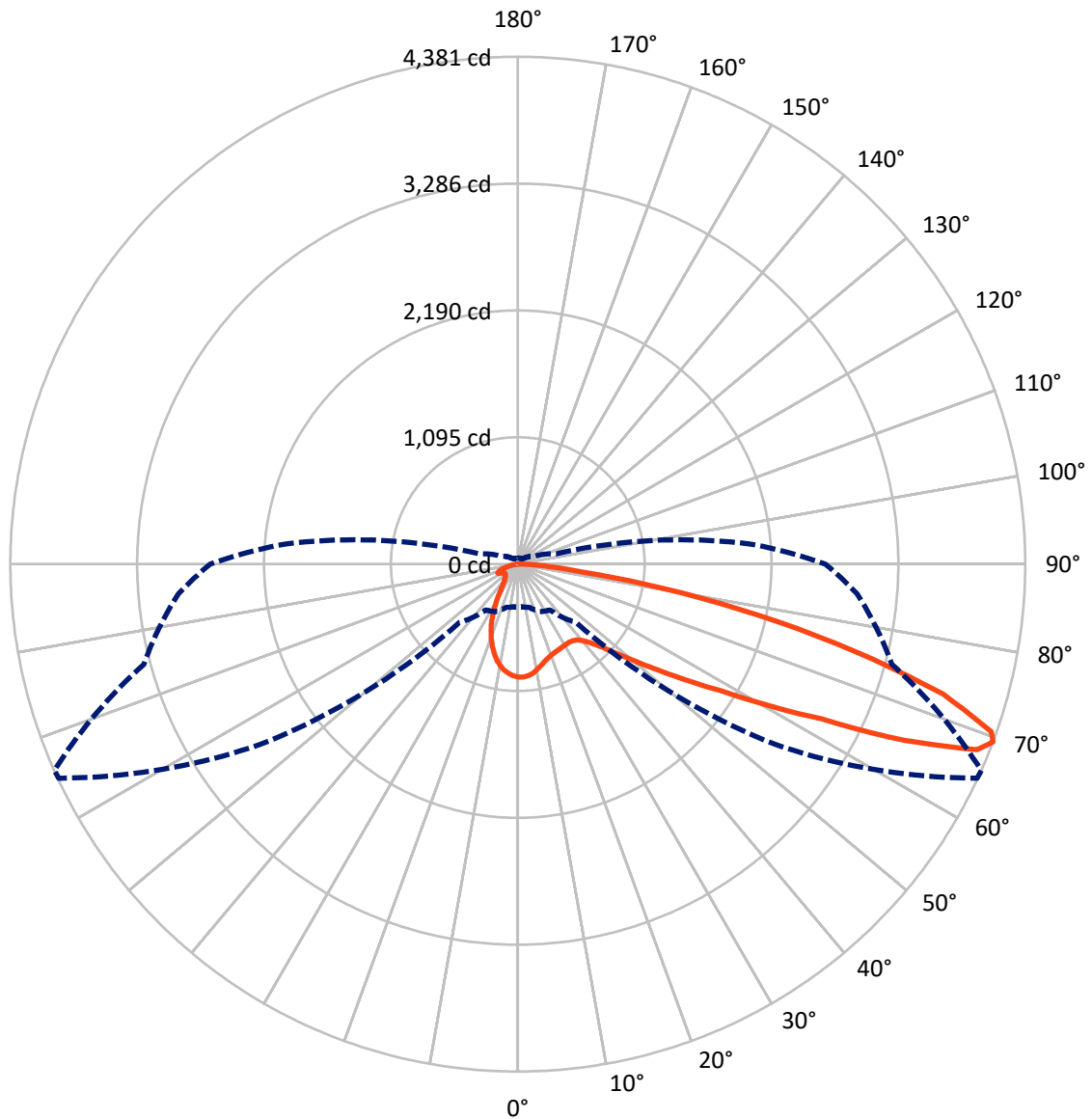
✕ Max cd  
 - - - 1/2 Max cd



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 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	794.6	0.0	794.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3430.4	0.0	3430.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4225.0	0.0	4225.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.7	2.0
10°-20°	201.0	4.8
20°-30°	273.6	6.5
30°-40°	367.6	8.7
40°-50°	548.9	13.0
50°-60°	873.2	20.7
60°-70°	1074.0	25.4
70°-80°	698.8	16.5
80°-90°	103.2	2.4
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°	4225.0	100.0
0°-180°	4225.0	100.0

**Coefficient of Utilization**



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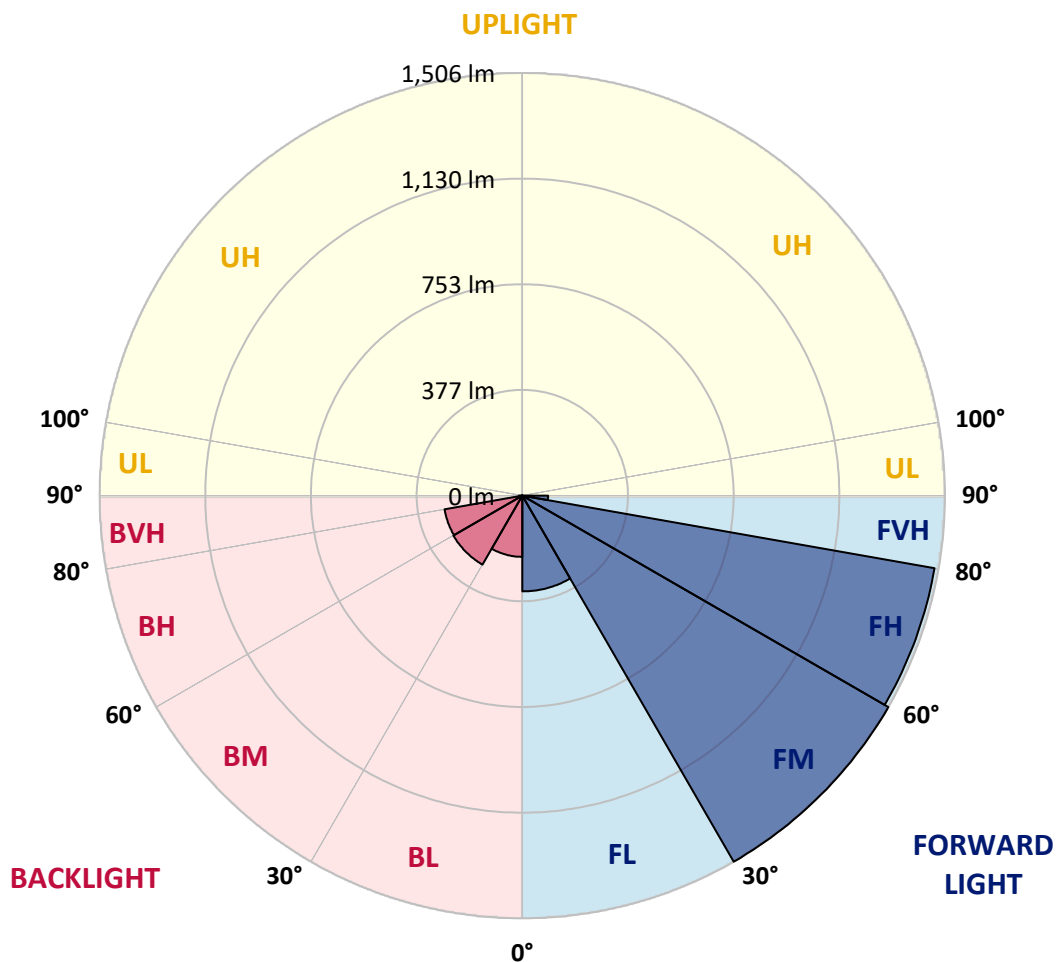
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.2	8.1			
FM	(30°-60°)	1506.1	35.6			
FH	(60°-80°)	1491.4	35.3			G1/1800
FVH	(80°-90°)	91.7	2.2			G1/100
BL	(0°-30°)	218.1	5.2	B1/500		
BM	(30°-60°)	283.7	6.7	B1/1000		
BH	(60°-80°)	281.3	6.7	B1/500		G1/500
BVH	(80°-90°)	11.4	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7
2.5°	941.5	945.3	949.5	954.1	963.0	967.9	971.5	975.4	975.9	978.0	976.4
5°	872.0	876.5	882.8	891.7	905.0	925.8	947.4	964.9	967.0	976.8	979.6
7.5°	814.0	816.6	821.7	836.0	854.9	878.1	909.5	945.0	950.2	973.6	981.8
10°	766.7	769.3	775.4	790.1	808.8	837.9	872.3	919.0	923.3	963.5	982.2
12.5°	731.4	733.7	740.3	754.8	776.3	803.5	841.4	891.0	897.1	950.2	977.8
15°	704.5	708.9	714.3	726.3	748.9	775.2	811.9	865.2	870.1	936.1	974.7
17.5°	693.0	695.1	698.9	709.9	726.5	752.2	789.2	845.1	851.0	926.3	974.0
20°	693.5	695.6	696.3	702.4	714.3	736.5	773.0	829.2	836.2	917.6	975.2
22.5°	709.4	709.6	707.1	705.0	709.6	728.1	761.6	817.3	825.5	913.9	976.1
25°	734.0	738.2	734.4	724.6	716.0	724.9	757.1	810.7	818.4	908.5	975.0
27.5°	773.8	774.5	771.4	758.1	735.6	729.1	755.3	805.8	812.4	904.5	969.1
30°	827.1	825.0	822.2	807.4	772.1	745.2	759.2	801.4	808.1	898.7	962.1
32.5°	881.1	887.7	885.1	867.8	821.9	776.6	772.1	800.9	806.5	894.2	954.4
35°	938.5	941.5	953.7	944.8	897.8	827.3	796.2	808.1	812.6	894.5	949.0
37.5°	983.4	991.6	1020.1	1027.8	983.6	894.5	835.3	828.7	830.6	905.9	951.1
40°	1037.7	1051.7	1088.4	1120.0	1091.0	981.8	901.7	866.9	869.2	933.6	964.9
42.5°	1106.5	1116.3	1165.7	1208.5	1203.8	1097.1	982.2	929.3	930.5	988.5	1003.5
45°	1186.9	1201.0	1256.4	1320.8	1331.8	1227.7	1098.5	1023.9	1023.2	1073.9	1075.6
47.5°	1289.9	1298.6	1353.5	1423.7	1468.2	1391.7	1239.6	1159.6	1152.1	1198.4	1185.1
50°	1384.7	1398.2	1439.9	1516.6	1627.3	1583.8	1425.1	1335.5	1318.0	1361.3	1338.8
52.5°	1424.4	1438.7	1473.8	1569.0	1763.7	1832.2	1660.7	1545.4	1516.1	1549.4	1541.2
55°	1355.4	1373.9	1406.6	1522.5	1823.6	2118.9	1978.5	1788.0	1766.7	1752.5	1754.8
57.5°	1169.9	1187.4	1231.6	1359.4	1752.0	2326.9	2432.2	2099.9	2054.3	1988.5	1999.8
60°	890.5	901.5	924.4	1066.0	1539.8	2380.9	2947.4	2494.2	2465.1	2223.7	2231.6
62.5°	632.4	644.8	660.7	731.4	1127.3	2228.6	3350.7	3044.7	2941.0	2467.3	2459.5
65°	513.6	505.1	524.3	557.3	661.4	1727.2	3441.5	3808.9	3666.1	2788.0	2680.9
67.5°	422.3	413.4	432.4	491.1	503.0	1002.6	3114.4	4304.9	4276.3	3136.9	2905.7
69°	373.9	369.2	385.8	452.7	482.9	712.0	2713.2	4373.9	4380.7	3342.5	2940.3
70°	336.9	338.8	354.9	433.3	473.8	587.0	2318.9	4278.7	4336.2	3445.3	2902.9
72.5°	248.0	252.0	274.5	358.9	465.1	498.1	1380.0	3737.3	3839.0	3451.3	2655.6
75°	173.4	171.5	191.4	270.2	439.4	493.7	810.5	2890.3	3005.6	2983.2	2231.4
77.5°	113.5	116.5	132.4	190.9	369.7	489.9	528.3	2050.5	2125.4	1995.1	1319.8
80°	80.0	79.8	88.7	130.3	274.2	470.8	432.6	1292.5	1273.5	784.0	391.4
82.5°	45.9	49.1	59.4	91.7	183.4	414.4	398.0	618.2	564.3	223.4	132.2
85°	25.5	26.7	35.3	55.5	107.2	312.1	347.5	281.2	265.3	93.4	56.9
87.5°	8.2	8.9	14.7	28.1	48.7	147.4	196.8	129.9	119.8	33.7	22.9
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°	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7	975.7
2.5°	977.1	979.9	972.4	965.1	958.6	949.5	941.3	934.5	929.8	929.1	926.8
5°	980.3	980.6	966.3	947.1	928.4	907.8	886.5	871.3	857.0	849.1	845.1
7.5°	982.7	980.6	954.8	923.7	887.7	850.3	812.8	782.9	759.7	750.6	754.1
10°	981.8	975.2	937.5	887.7	835.3	779.4	725.6	683.4	644.8	624.9	625.4
12.5°	976.6	965.8	911.8	847.2	770.2	695.4	613.0	556.2	511.5	485.0	476.8
15°	972.2	953.4	881.6	792.2	696.5	589.6	489.2	419.0	381.6	360.8	360.6
17.5°	967.5	941.5	848.6	734.0	611.8	474.3	369.0	315.4	297.8	300.0	296.4
20°	962.6	927.5	814.2	669.2	508.7	353.8	276.3	254.6	259.5	269.1	270.5
22.5°	957.0	912.5	777.3	597.8	400.1	266.3	224.1	220.9	233.5	248.5	250.6
25°	948.3	893.8	730.7	523.2	308.6	214.6	196.3	198.6	211.0	223.7	225.1
27.5°	936.1	870.6	683.7	430.0	231.9	184.1	179.5	182.5	188.6	196.3	198.2
30°	919.8	844.4	629.6	349.6	185.8	168.9	167.1	168.7	172.2	175.5	176.4
32.5°	903.4	819.1	575.1	267.7	165.7	158.9	157.0	157.0	157.0	157.5	157.7
35°	888.2	795.3	516.6	208.5	155.1	150.9	148.3	145.5	145.1	143.4	143.4
37.5°	879.7	773.5	454.4	174.5	147.4	144.4	140.9	136.2	133.6	133.8	133.4
40°	881.4	759.2	397.8	155.4	141.1	137.8	132.4	127.0	125.4	125.4	124.9
42.5°	899.9	754.6	343.5	145.3	135.0	131.3	124.5	119.6	118.6	118.4	118.9
45°	942.4	766.0	294.8	138.7	129.9	124.2	117.5	113.0	112.1	112.1	111.8
47.5°	1025.5	803.2	259.9	134.5	126.1	118.9	111.8	107.4	105.8	105.3	105.3
50°	1154.7	884.0	234.0	130.8	121.4	113.9	106.7	101.5	99.0	98.7	98.5
52.5°	1334.1	1009.8	223.9	128.0	116.3	108.8	100.8	95.9	92.7	92.0	91.5
55°	1544.0	1185.5	237.7	125.9	110.9	102.9	94.8	89.6	86.6	85.2	84.9
57.5°	1787.1	1396.6	290.1	123.1	106.0	96.6	88.7	83.5	80.3	78.6	78.1
60°	2005.4	1613.5	381.6	121.4	101.8	89.8	81.7	77.0	73.9	72.3	72.1
62.5°	2245.2	1820.3	490.9	125.9	99.9	83.3	75.1	70.9	68.3	66.7	66.7
65°	2501.4	2027.4	563.2	140.9	102.7	78.1	68.1	64.6	62.2	61.1	60.8
67.5°	2674.1	2099.0	464.0	156.3	109.7	72.5	61.3	58.5	57.1	55.9	55.9
69°	2655.4	2008.4	342.3	160.3	111.8	69.7	57.6	55.5	53.6	53.1	52.6
70°	2596.2	1905.2	286.9	157.7	110.2	67.2	55.2	52.6	51.0	50.5	50.3
72.5°	2312.4	1652.3	213.6	137.1	93.8	58.3	48.9	46.6	45.2	44.5	44.5
75°	1921.2	1350.5	166.8	109.0	73.5	49.1	41.9	40.0	38.8	38.4	38.1
77.5°	1076.7	754.1	119.8	85.4	55.7	39.8	35.1	33.5	32.3	31.8	31.8
80°	300.0	215.5	70.4	56.4	37.9	30.2	27.8	26.7	25.0	23.9	24.6
82.5°	113.0	93.4	40.2	33.9	24.1	20.1	19.4	18.5	17.8	16.1	16.1
85°	55.0	45.4	25.7	18.0	13.3	10.5	10.1	9.6	9.1	8.0	8.2
87.5°	19.0	20.1	11.2	6.6	4.0	2.6	2.1	1.2	1.2	1.2	1.2
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)