

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: P450440

Luminaire Tested: **GALN-SA1B-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4843 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

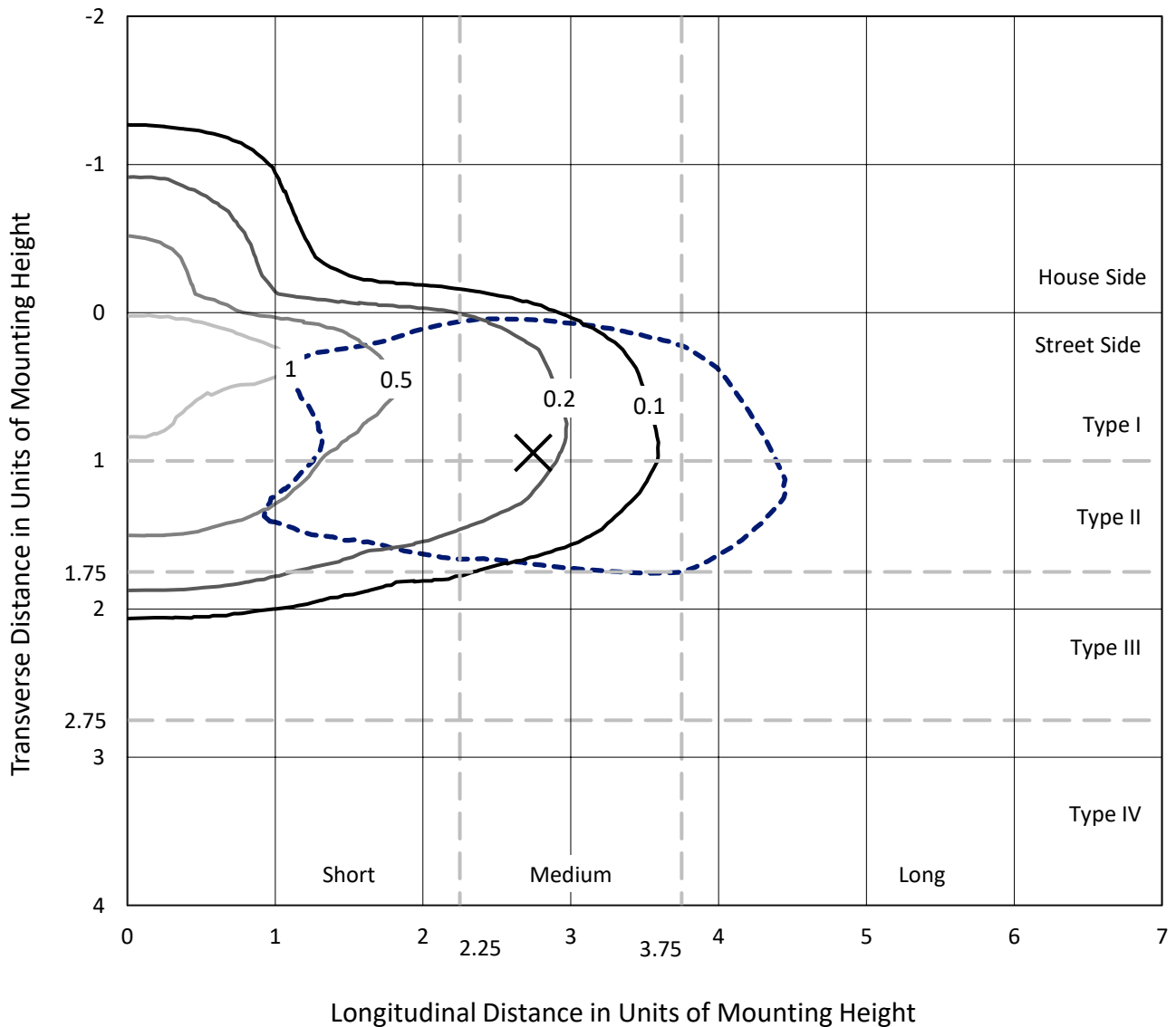
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

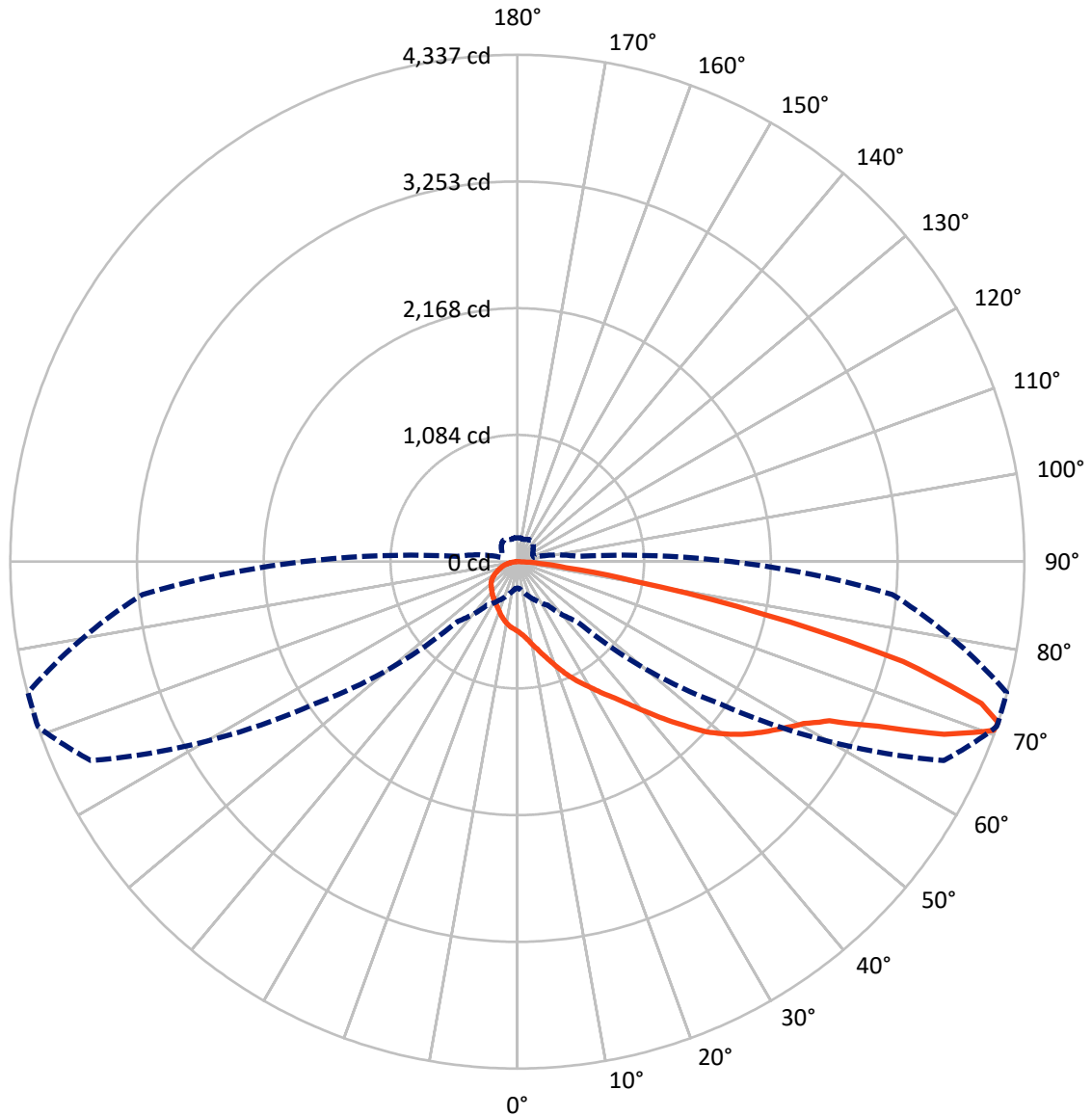
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	871.0	0.0	871.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	3972.0	0.0	3972.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	4843.0	0.0	4843.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.7	1.2
10°-20°	193.9	4.0
20°-30°	338.9	7.0
30°-40°	504.0	10.4
40°-50°	742.6	15.3
50°-60°	1039.6	21.5
60°-70°	1162.8	24.0
70°-80°	710.3	14.7
80°-90°	91.4	1.9
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°	4843.0	100.0
0°-180°	4843.0	100.0



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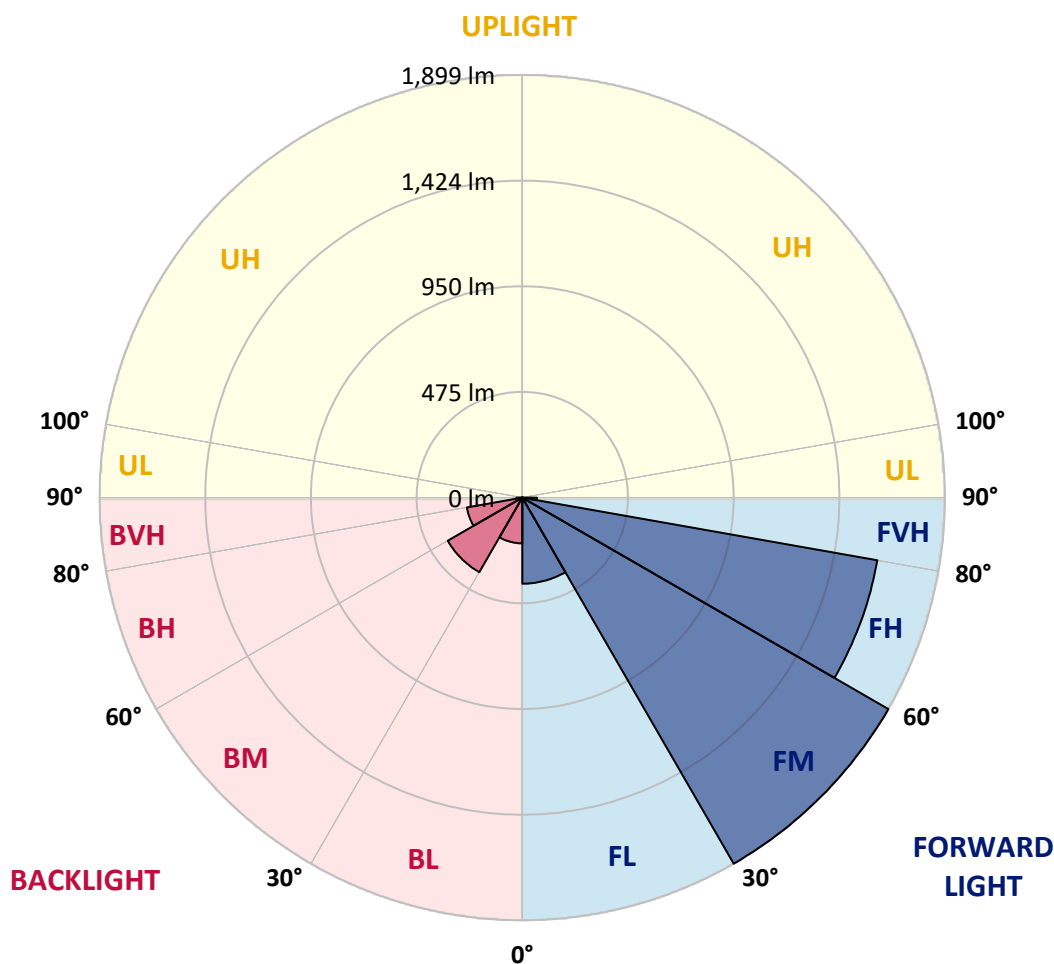
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.0	8.0			
FM (30°-60°)	1899.3	39.2			
FH (60°-80°)	1620.0	33.4			G1/1800
FVH (80°-90°)	65.7	1.4			G1/100
BL (0°-30°)	205.5	4.2	B1/500		
BM (30°-60°)	386.8	8.0	B1/1000		
BH (60°-80°)	253.1	5.2	B1/500		G1/500
BVH (80°-90°)	25.6	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	659.9	656.7	656.9	652.4	646.6	640.2	631.1	623.1	616.7	613.0	602.1
5°	731.2	728.0	724.0	714.2	709.9	694.2	674.2	656.1	642.3	634.6	612.7
7.5°	789.0	788.2	787.1	781.5	770.6	748.8	731.7	700.3	679.8	665.2	627.9
10°	824.6	826.0	826.8	827.8	823.3	811.9	788.4	748.8	722.7	704.0	647.6
12.5°	842.7	844.1	848.6	858.4	864.6	863.2	844.1	805.2	769.3	744.8	668.6
15°	853.9	856.0	864.0	877.1	897.6	910.6	901.3	865.4	826.0	796.9	693.7
17.5°	866.2	868.5	877.3	896.0	922.9	951.1	961.2	930.3	887.4	852.8	721.6
20°	873.1	876.3	888.8	913.3	944.7	985.7	1019.2	1003.0	956.1	917.8	753.8
22.5°	884.3	886.9	897.6	923.6	961.2	1012.6	1077.2	1073.8	1032.5	983.0	789.2
25°	914.6	918.9	924.2	939.9	976.1	1040.0	1125.4	1149.4	1106.5	1051.1	821.7
27.5°	971.8	975.3	975.0	977.2	997.6	1063.7	1167.2	1224.2	1180.0	1120.1	853.1
30°	1037.0	1038.4	1039.4	1034.6	1039.2	1087.9	1205.5	1298.2	1254.0	1190.9	880.5
32.5°	1116.4	1119.0	1110.0	1097.7	1094.0	1123.8	1237.2	1372.2	1341.6	1262.8	907.7
35°	1210.1	1217.0	1198.6	1177.1	1161.9	1175.5	1279.8	1447.8	1431.3	1354.6	943.6
37.5°	1317.1	1325.6	1308.5	1266.2	1244.7	1248.4	1335.4	1541.2	1544.6	1459.2	997.1
40°	1404.6	1415.8	1416.4	1356.5	1323.7	1328.0	1406.0	1641.8	1681.5	1588.6	1060.2
42.5°	1462.4	1473.3	1484.8	1449.6	1415.3	1439.5	1488.2	1750.9	1835.3	1745.6	1148.3
45°	1525.8	1535.6	1542.0	1526.0	1506.9	1569.7	1587.5	1867.0	1999.3	1921.0	1244.7
47.5°	1599.2	1610.1	1616.3	1601.1	1593.9	1683.9	1694.5	1975.3	2174.4	2091.4	1351.1
50°	1697.2	1705.4	1702.2	1692.6	1691.0	1771.4	1797.3	2076.7	2319.0	2274.8	1461.6
52.5°	1819.1	1828.9	1832.4	1818.8	1812.7	1834.0	1880.0	2169.1	2450.5	2432.4	1579.5
55°	1892.8	1908.5	1961.2	1982.5	1997.2	1914.9	1969.2	2271.1	2568.4	2598.5	1706.2
57.5°	1798.3	1818.6	1936.5	2042.9	2180.6	2117.2	2095.6	2377.5	2686.3	2759.5	1857.9
60°	1567.8	1572.3	1724.3	1920.5	2197.3	2377.3	2359.4	2546.8	2814.1	2921.9	2057.8
62.5°	1087.6	1097.2	1276.9	1589.9	1990.2	2471.0	2808.2	2839.1	2997.2	3164.9	2350.9
65°	560.8	548.3	712.0	999.2	1500.5	2248.4	3171.8	3376.5	3394.3	3545.0	2763.5
67.5°	345.2	350.8	427.5	583.5	887.2	1634.1	3133.8	4033.2	3939.2	4011.6	3146.5
70°	259.3	266.2	318.9	399.3	540.9	934.3	2520.2	4192.4	4323.6	4304.9	3263.1
71°	225.5	232.6	287.5	363.3	454.4	721.1	2123.3	4025.7	4336.9	4333.7	3219.2
72.5°	192.2	196.7	239.6	307.7	383.0	505.5	1595.2	3610.5	4151.9	4258.1	3062.4
75°	150.9	154.4	173.6	234.8	301.6	310.4	856.0	2706.8	3410.0	3612.3	2549.5
77.5°	123.0	125.4	135.2	174.3	232.6	219.9	449.0	1761.9	2136.4	2340.0	1501.8
80°	97.7	100.4	106.2	118.2	174.3	156.8	214.3	892.8	1032.0	1029.9	599.4
82.5°	75.9	76.7	83.6	86.8	119.2	111.3	116.1	378.0	418.7	432.5	216.4
85°	47.9	50.3	74.0	66.5	71.3	65.2	57.2	150.1	185.0	182.3	86.5
87.5°	14.6	15.4	25.0	28.2	31.7	28.5	21.0	44.2	54.0	58.6	21.6
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°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	597.8	594.9	584.5	576.0	568.0	559.2	551.8	549.7	547.8	547.0	546.7
5°	603.4	594.6	574.2	557.4	544.1	531.8	524.1	520.7	517.2	517.2	518.3
7.5°	611.4	595.4	563.8	538.8	522.0	510.5	504.9	504.4	505.2	506.0	506.3
10°	620.2	594.9	548.6	517.5	502.6	497.2	497.5	502.0	506.3	509.5	510.0
12.5°	628.7	591.7	530.8	497.5	487.9	489.0	496.4	506.5	514.8	519.3	519.6
15°	638.3	586.7	509.2	478.6	475.4	483.7	497.5	512.9	525.4	532.9	533.7
17.5°	646.3	578.1	486.6	460.2	464.2	479.4	498.6	518.5	533.7	543.0	544.6
20°	655.3	567.2	463.2	442.7	454.1	474.6	496.4	518.0	533.7	542.7	544.9
22.5°	662.5	551.8	440.8	428.3	445.1	468.7	489.2	506.5	519.3	524.1	527.3
25°	665.5	532.4	419.8	416.6	437.9	459.2	473.0	482.9	486.8	486.3	487.6
27.5°	663.9	510.0	401.7	407.3	428.8	444.3	451.2	450.4	443.2	436.5	439.7
30°	657.2	483.4	386.5	397.7	417.1	425.6	424.6	414.2	400.6	388.1	388.9
32.5°	645.2	454.6	372.4	386.8	400.6	404.3	397.1	383.6	364.1	347.9	345.5
35°	635.1	427.2	359.9	374.3	384.1	382.2	375.3	357.7	340.2	325.8	323.4
37.5°	633.5	403.8	347.9	360.1	365.7	363.1	354.6	339.6	333.3	322.3	321.0
40°	642.0	387.3	335.7	345.2	347.9	345.8	336.5	327.9	333.8	331.1	331.1
42.5°	665.2	378.5	324.7	330.3	332.5	334.1	327.4	320.2	327.4	315.2	311.2
45°	701.9	378.8	314.9	315.7	322.1	327.7	323.1	312.5	308.8	284.3	279.5
47.5°	756.0	387.8	306.9	301.8	313.3	322.6	316.2	300.8	284.3	268.0	265.1
50°	819.0	404.1	299.7	287.5	301.6	316.2	311.4	293.3	276.3	266.4	264.6
52.5°	889.0	424.6	290.9	271.5	287.2	313.3	312.5	292.3	268.8	262.2	260.6
55°	975.6	444.8	280.0	252.9	274.4	310.9	309.6	283.5	267.2	262.5	261.9
57.5°	1076.2	474.1	264.3	234.0	259.8	301.1	298.1	278.2	261.9	258.5	258.2
60°	1238.3	519.6	242.0	216.7	244.9	283.7	287.5	269.1	253.4	252.6	252.3
62.5°	1451.5	583.5	218.8	198.8	227.6	261.4	272.0	256.9	244.4	248.3	248.9
65°	1745.9	637.2	194.8	183.7	208.4	239.8	257.4	245.4	234.2	242.0	242.0
67.5°	1937.8	638.3	173.0	168.0	189.0	221.7	242.0	231.8	221.2	234.2	234.8
70°	1897.9	559.2	154.9	151.5	170.1	202.3	224.9	216.9	204.7	216.4	212.1
71°	1833.5	515.3	147.7	145.1	162.6	193.0	216.9	210.3	198.0	205.8	203.4
72.5°	1730.7	447.5	136.0	136.6	151.5	181.3	205.8	198.8	186.6	190.9	190.1
75°	1462.9	390.8	116.3	118.7	130.2	161.3	183.4	178.1	165.6	165.6	164.8
77.5°	914.6	273.1	96.6	98.0	110.5	138.1	157.6	153.1	141.1	137.1	136.0
80°	341.2	141.1	75.6	77.2	84.9	108.9	130.4	126.2	113.9	109.4	105.1
82.5°	129.1	70.8	55.6	54.3	62.6	83.0	102.2	97.2	87.6	76.7	73.5
85°	48.7	35.1	34.1	33.0	36.7	49.2	63.4	62.3	52.2	44.5	43.7
87.5°	12.8	11.4	13.3	9.8	10.4	9.3	9.6	4.0	1.9	0.8	0.5
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)