

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: P450255

Luminaire Tested: **GALN-SA1A-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450255  
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-SA1A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA 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: 4619 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

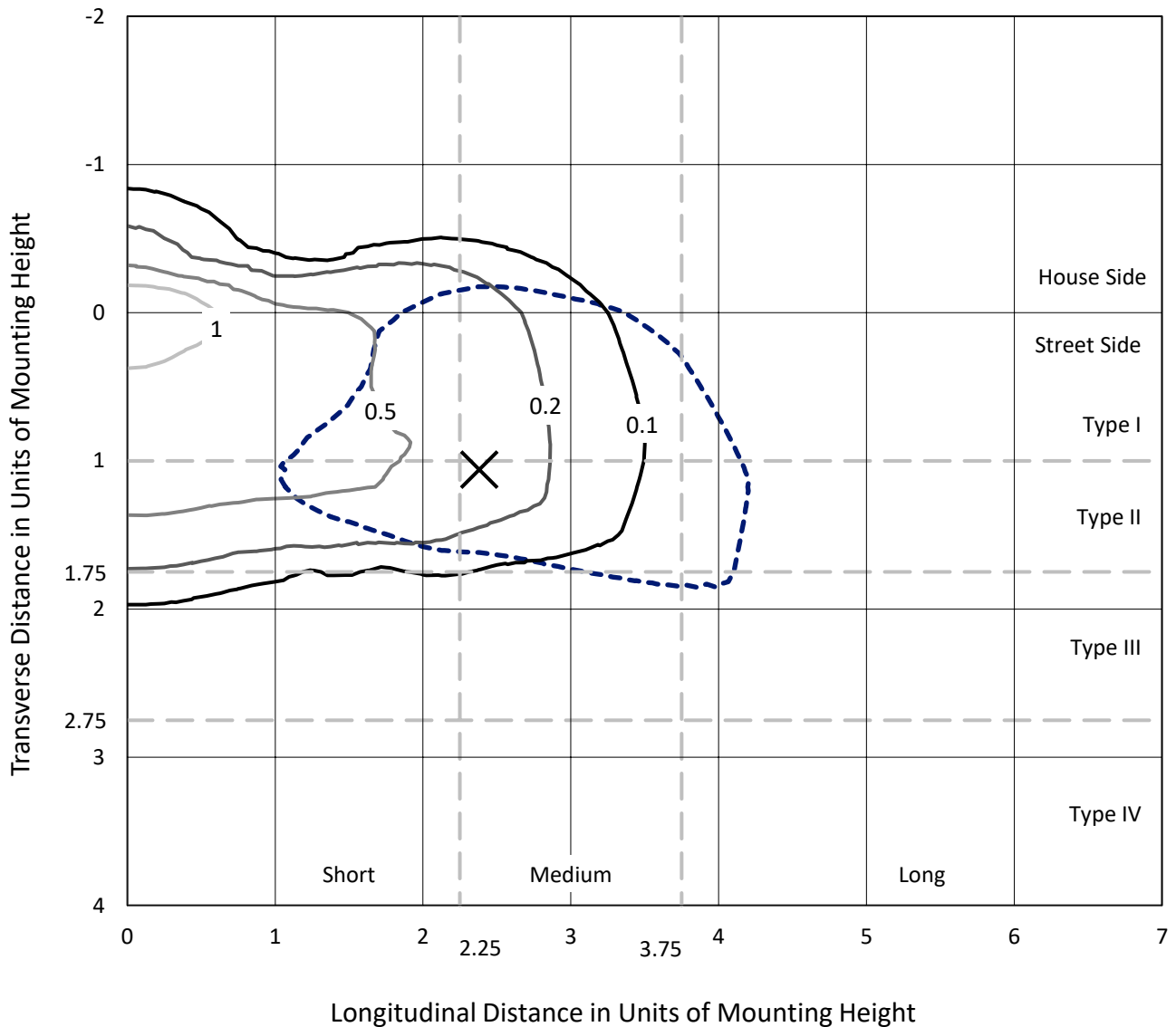
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

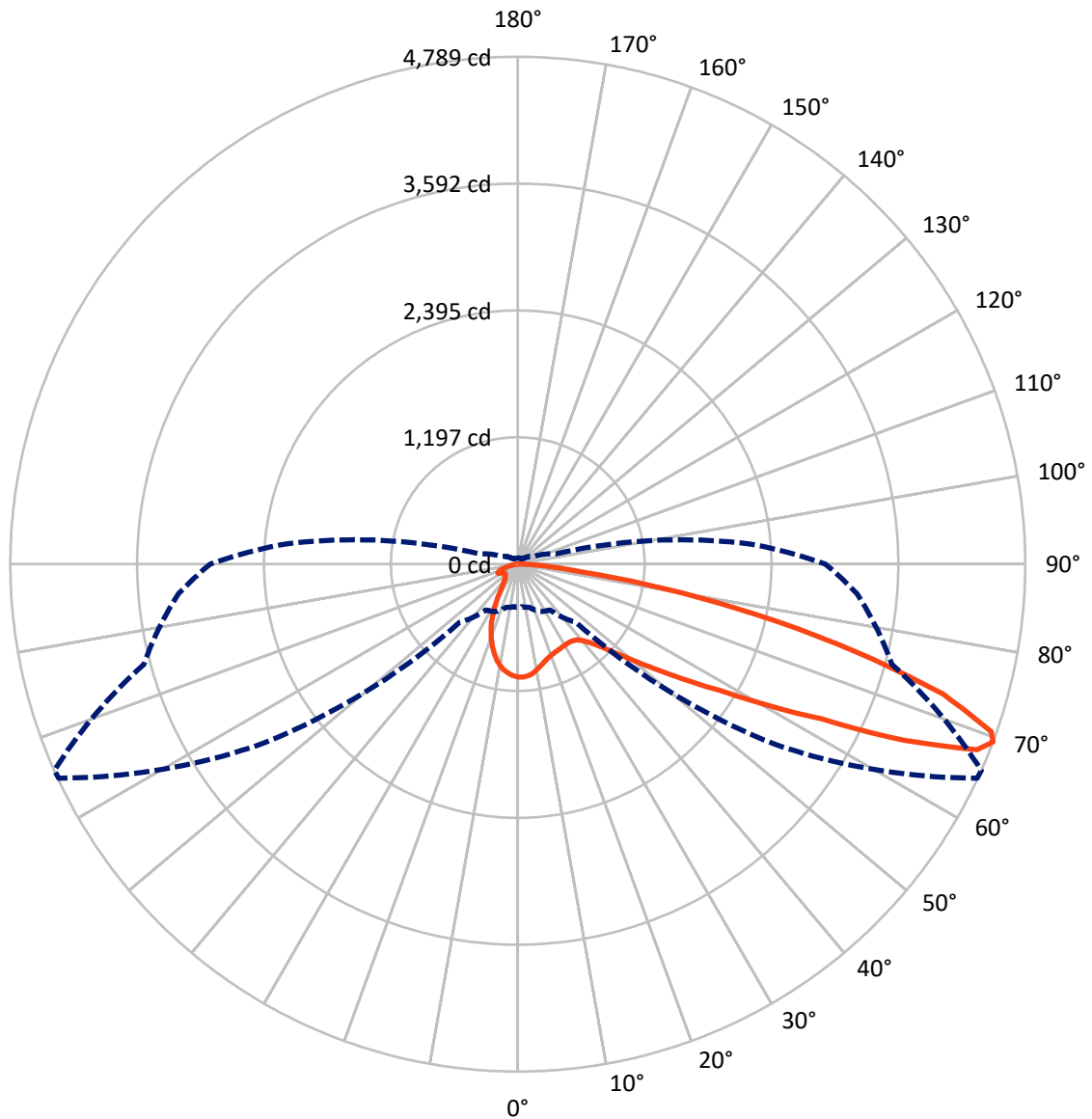
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	868.7	0.0	868.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3750.3	0.0	3750.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4619.0	0.0	4619.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	2.0
10°-20°	219.7	4.8
20°-30°	299.1	6.5
30°-40°	401.9	8.7
40°-50°	600.1	13.0
50°-60°	954.6	20.7
60°-70°	1174.1	25.4
70°-80°	763.9	16.5
80°-90°	112.8	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°	4619.0	100.0
0°-180°	4619.0	100.0



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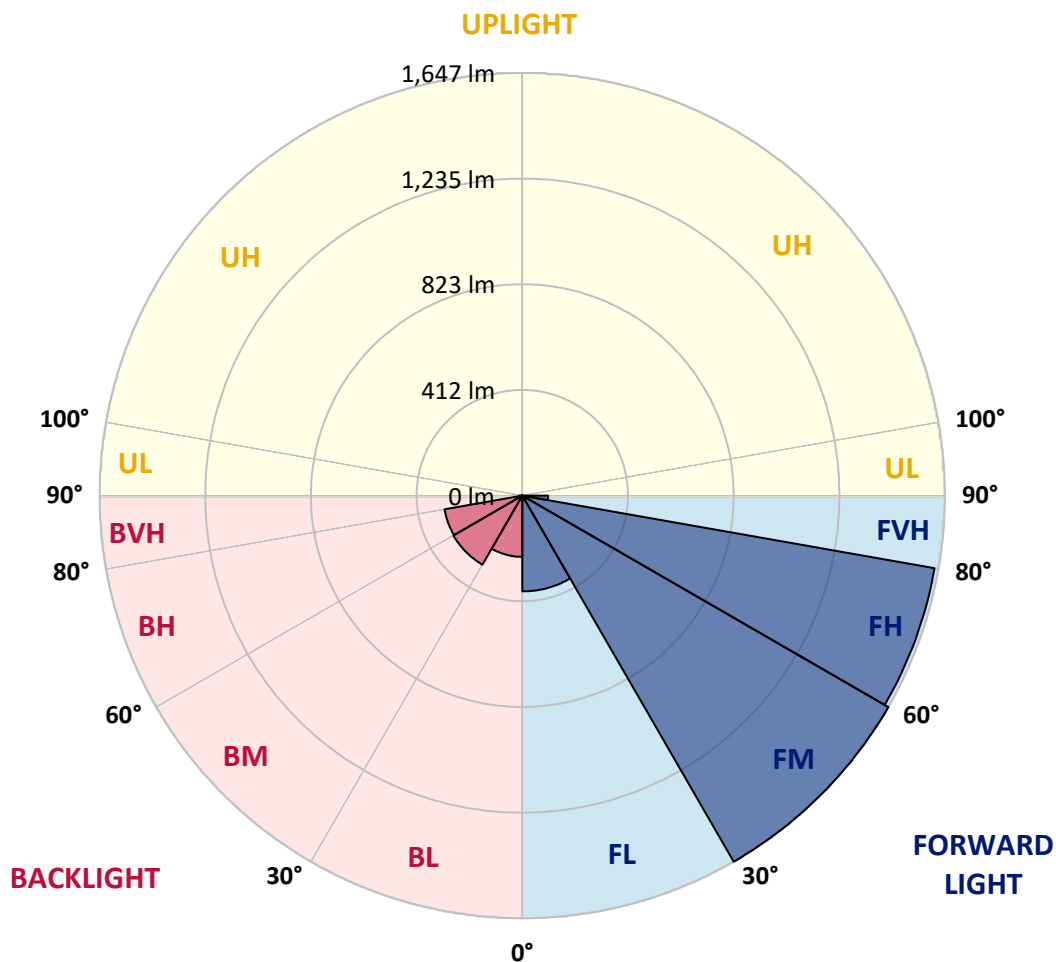
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.0	8.1			
FM (30°-60°)	1646.5	35.6			
FH (60°-80°)	1630.5	35.3			G1/1800
FVH (80°-90°)	100.3	2.2			G2/225
BL (0°-30°)	238.5	5.2	B1/500		
BM (30°-60°)	310.1	6.7	B1/1000		
BH (60°-80°)	307.5	6.7	B1/500		G1/500
BVH (80°-90°)	12.5	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7
2.5°	1029.3	1033.4	1038.0	1043.1	1052.8	1058.2	1062.1	1066.4	1066.9	1069.2	1067.4
5°	953.3	958.2	965.1	974.8	989.4	1012.2	1035.7	1054.9	1057.2	1067.9	1071.0
7.5°	889.9	892.7	898.3	913.9	934.7	960.0	994.3	1033.1	1038.8	1064.4	1073.3
10°	838.2	841.0	847.7	863.8	884.3	916.0	953.6	1004.8	1009.4	1053.4	1073.8
12.5°	799.6	802.2	809.3	825.2	848.7	878.4	919.8	974.1	980.7	1038.8	1069.0
15°	770.2	775.1	780.9	794.0	818.8	847.4	887.6	945.9	951.3	1023.4	1065.6
17.5°	757.7	760.0	764.1	776.1	794.2	822.4	862.8	923.9	930.3	1012.7	1064.9
20°	758.2	760.5	761.2	767.9	780.9	805.2	845.1	906.5	914.2	1003.2	1066.1
22.5°	775.6	775.8	773.0	770.7	775.8	796.0	832.6	893.5	902.4	999.1	1067.2
25°	802.4	807.0	802.9	792.2	782.7	792.4	827.7	886.3	894.8	993.2	1065.9
27.5°	845.9	846.7	843.3	828.8	804.2	797.0	825.7	880.9	888.1	988.9	1059.5
30°	904.2	901.9	898.9	882.7	844.1	814.7	830.0	876.1	883.5	982.5	1051.8
32.5°	963.3	970.5	967.7	948.7	898.6	849.0	844.1	875.6	881.7	977.6	1043.4
35°	1026.0	1029.3	1042.6	1032.9	981.5	904.5	870.5	883.5	888.4	977.9	1037.5
37.5°	1075.1	1084.0	1115.3	1123.7	1075.4	977.9	913.2	906.0	908.1	990.4	1039.8
40°	1134.4	1149.8	1189.9	1224.5	1192.8	1073.3	985.8	947.7	950.3	1020.6	1054.9
42.5°	1209.6	1220.4	1274.4	1321.2	1316.1	1199.4	1073.8	1016.0	1017.3	1080.7	1097.1
45°	1297.6	1313.0	1373.6	1443.9	1456.0	1342.1	1200.9	1119.3	1118.6	1174.1	1175.9
47.5°	1410.2	1419.6	1479.8	1556.5	1605.1	1521.5	1355.2	1267.7	1259.5	1310.2	1295.6
50°	1513.8	1528.6	1574.1	1658.0	1779.0	1731.5	1558.0	1460.1	1440.9	1488.2	1463.6
52.5°	1557.3	1572.9	1611.2	1715.3	1928.2	2003.1	1815.6	1689.5	1657.5	1693.9	1684.9
55°	1481.8	1502.0	1537.8	1664.4	1993.6	2316.5	2163.0	1954.8	1931.5	1915.9	1918.4
57.5°	1279.0	1298.1	1346.5	1486.2	1915.4	2543.9	2659.0	2295.7	2245.9	2174.0	2186.3
60°	973.5	985.6	1010.6	1165.4	1683.4	2602.9	3222.2	2726.7	2695.0	2431.1	2439.8
62.5°	691.4	705.0	722.4	799.6	1232.4	2436.4	3663.2	3328.6	3215.3	2697.3	2688.9
65°	561.5	552.3	573.2	609.3	723.1	1888.3	3762.5	4164.0	4008.0	3048.0	2930.9
67.5°	461.7	452.0	472.7	536.9	550.0	1096.1	3404.9	4706.3	4675.1	3429.4	3176.7
69°	408.8	403.6	421.8	495.0	528.0	778.4	2966.2	4781.8	4789.2	3654.3	3214.5
70°	368.3	370.4	388.0	473.7	518.0	641.8	2535.2	4677.7	4740.6	3766.5	3173.6
72.5°	271.1	275.5	300.0	392.4	508.5	544.6	1508.7	4085.8	4197.0	3773.2	2903.2
75°	189.5	187.5	209.2	295.4	480.4	539.7	886.1	3159.8	3285.9	3261.4	2439.5
77.5°	124.1	127.4	144.8	208.7	404.2	535.6	577.6	2241.8	2323.6	2181.1	1442.9
80°	87.5	87.2	96.9	142.5	299.8	514.7	473.0	1413.0	1392.3	857.2	427.9
82.5°	50.1	53.7	65.0	100.3	200.5	453.0	435.1	675.8	617.0	244.3	144.5
85°	27.9	29.2	38.6	60.6	117.2	341.2	379.9	307.5	290.1	102.1	62.2
87.5°	9.0	9.7	16.1	30.7	53.2	161.1	215.1	142.0	131.0	36.8	25.1
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°	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7	1066.7
2.5°	1068.2	1071.3	1063.1	1055.1	1048.0	1038.0	1029.1	1021.6	1016.5	1015.8	1013.2
5°	1071.8	1072.0	1056.4	1035.4	1015.0	992.5	969.2	952.6	937.0	928.3	923.9
7.5°	1074.3	1072.0	1043.9	1009.9	970.5	929.6	888.6	855.9	830.6	820.6	824.4
10°	1073.3	1066.1	1025.0	970.5	913.2	852.0	793.2	747.2	705.0	683.2	683.7
12.5°	1067.7	1055.9	996.8	926.2	842.1	760.2	670.2	608.0	559.2	530.3	521.3
15°	1062.8	1042.4	963.8	866.1	761.5	644.6	534.9	458.1	417.2	394.4	394.2
17.5°	1057.7	1029.3	927.8	802.4	668.9	518.5	403.4	344.8	325.6	327.9	324.1
20°	1052.3	1014.0	890.2	731.6	556.1	386.8	302.1	278.3	283.7	294.2	295.7
22.5°	1046.2	997.6	849.7	653.6	437.4	291.1	245.0	241.5	255.3	271.7	274.0
25°	1036.7	977.1	798.8	572.0	337.4	234.6	214.6	217.2	230.7	244.5	246.1
27.5°	1023.4	951.8	747.4	470.1	253.5	201.3	196.2	199.5	206.2	214.6	216.7
30°	1005.5	923.2	688.3	382.2	203.1	184.7	182.6	184.4	188.3	191.8	192.9
32.5°	987.6	895.5	628.7	292.6	181.1	173.7	171.6	171.6	171.6	172.1	172.4
35°	971.0	869.4	564.8	227.9	169.6	165.0	162.2	159.1	158.6	156.8	156.8
37.5°	961.8	845.7	496.7	190.8	161.1	157.8	154.0	148.9	146.1	146.3	145.8
40°	963.6	830.0	434.8	169.8	154.2	150.7	144.8	138.9	137.1	137.1	136.6
42.5°	983.8	824.9	375.5	158.8	147.6	143.5	136.1	130.7	129.7	129.4	129.9
45°	1030.3	837.5	322.3	151.7	142.0	135.8	128.4	123.5	122.5	122.5	122.3
47.5°	1121.1	878.1	284.2	147.1	137.9	129.9	122.3	117.4	115.6	115.1	115.1
50°	1262.3	966.4	255.8	143.0	132.8	124.6	116.6	111.0	108.2	107.9	107.7
52.5°	1458.5	1104.0	244.8	139.9	127.1	118.9	110.2	104.9	101.3	100.5	100.0
55°	1688.0	1296.1	259.9	137.6	121.2	112.5	103.6	98.0	94.6	93.1	92.9
57.5°	1953.7	1526.8	317.2	134.5	115.9	105.6	96.9	91.3	87.7	85.9	85.4
60°	2192.4	1763.9	417.2	132.8	111.3	98.2	89.3	84.2	80.8	79.0	78.8
62.5°	2454.6	1990.1	536.7	137.6	109.2	91.1	82.1	77.5	74.7	72.9	72.9
65°	2734.7	2216.4	615.7	154.0	112.3	85.4	74.4	70.6	68.0	66.8	66.5
67.5°	2923.5	2294.7	507.2	170.9	120.0	79.3	67.0	63.9	62.4	61.1	61.1
69°	2903.0	2195.7	374.2	175.2	122.3	76.2	62.9	60.6	58.6	58.1	57.6
70°	2838.3	2082.9	313.6	172.4	120.5	73.4	60.4	57.6	55.8	55.3	55.0
72.5°	2528.0	1806.4	233.5	149.9	102.6	63.7	53.5	50.9	49.4	48.6	48.6
75°	2100.3	1476.4	182.4	119.2	80.3	53.7	45.8	43.7	42.5	41.9	41.7
77.5°	1177.2	824.4	131.0	93.4	60.9	43.5	38.4	36.6	35.3	34.8	34.8
80°	327.9	235.6	77.0	61.6	41.4	33.0	30.4	29.2	27.4	26.1	26.9
82.5°	123.5	102.1	44.0	37.1	26.3	22.0	21.2	20.2	19.4	17.6	17.6
85°	60.1	49.6	28.1	19.7	14.6	11.5	11.0	10.5	10.0	8.7	9.0
87.5°	20.7	22.0	12.3	7.2	4.3	2.8	2.3	1.3	1.3	1.3	1.3
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)