

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: P450462

Luminaire Tested: **GALN-SA1B-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5133 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

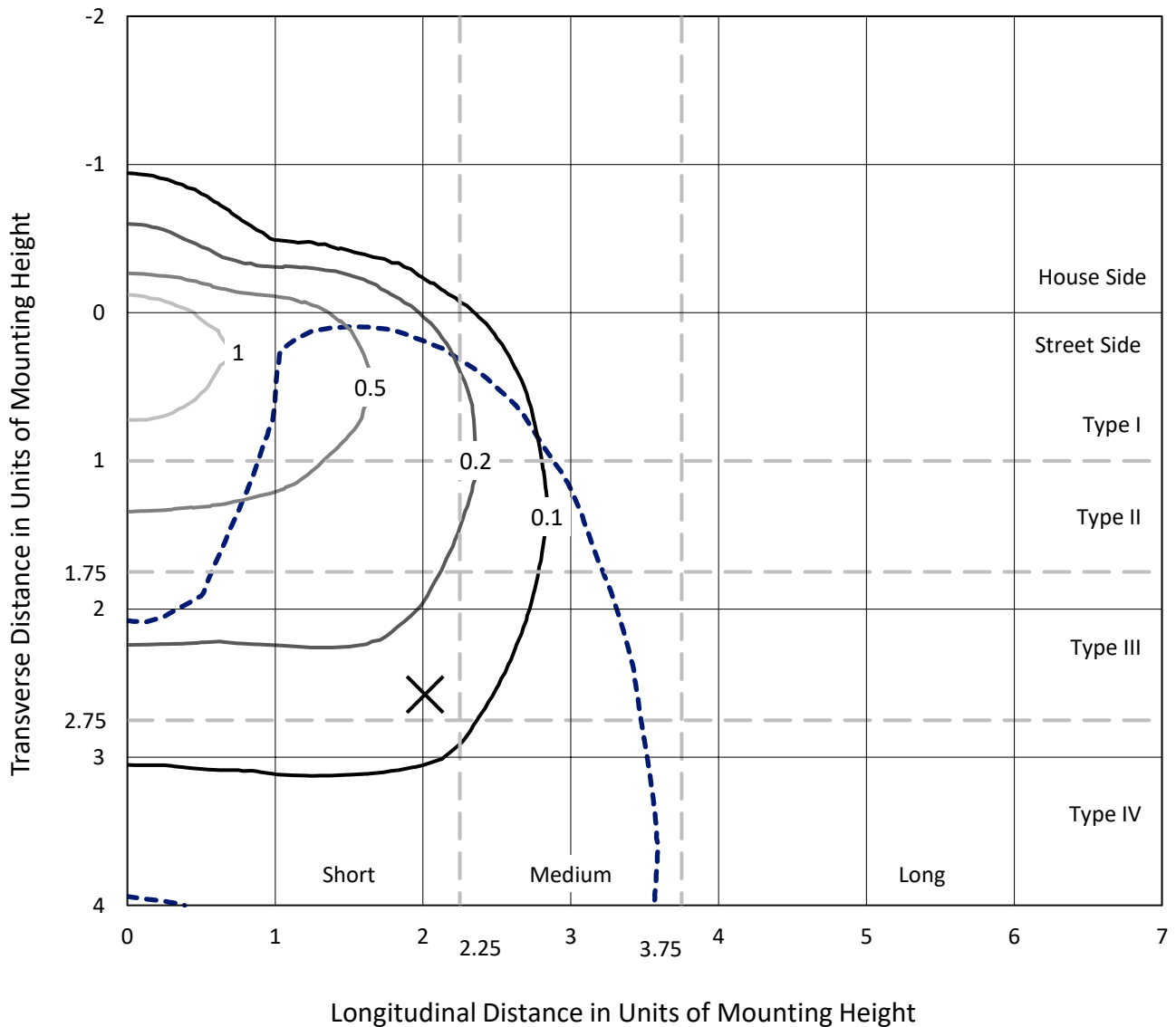
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

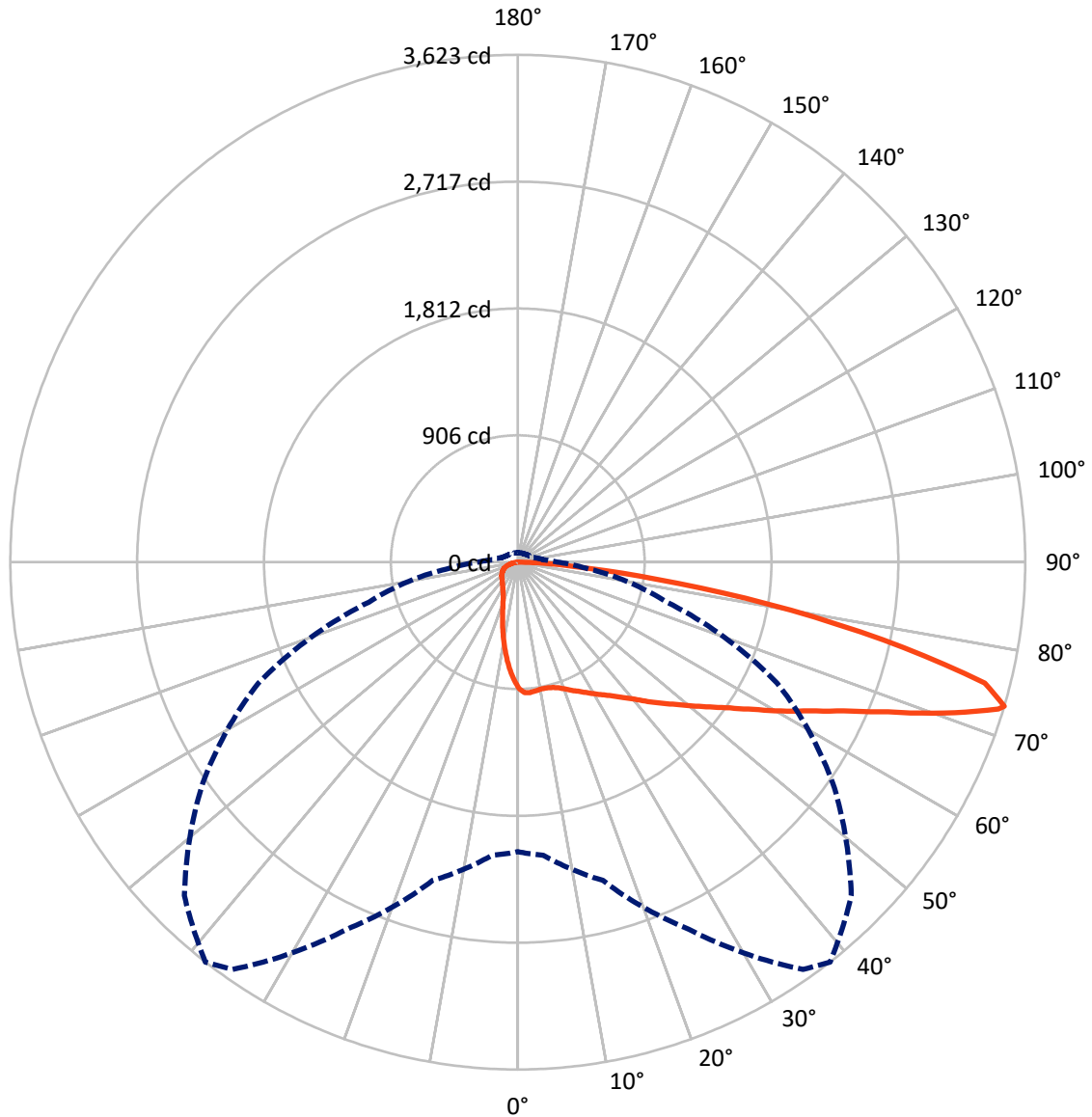
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	690.0	0.0	690.0
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	4443.0	0.0	4443.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5133.0	0.0	5133.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	1.5
10°-20°	201.9	3.9
20°-30°	314.3	6.1
30°-40°	461.0	9.0
40°-50°	683.9	13.3
50°-60°	968.9	18.9
60°-70°	1229.1	23.9
70°-80°	1023.2	19.9
80°-90°	171.9	3.3
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°	5133.0	100.0
0°-180°	5133.0	100.0

**Coefficient of Utilization**



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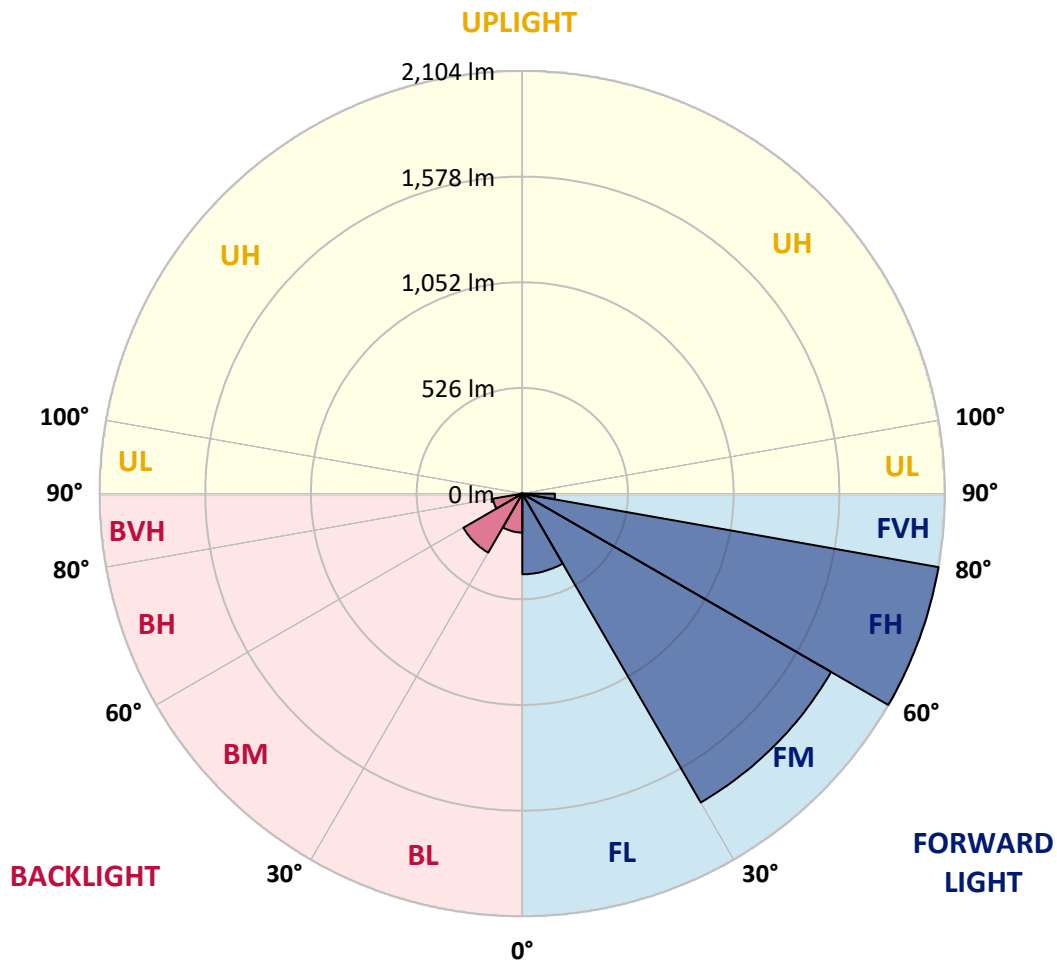
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.3	7.8			
FM (30°-60°)	1775.1	34.6			
FH (60°-80°)	2104.0	41.0			G2/5000
FVH (80°-90°)	162.6	3.2			G2/225
BL (0°-30°)	193.6	3.8	B1/500		
BM (30°-60°)	338.8	6.6	B1/1000		
BH (60°-80°)	148.3	2.9	B1/500		G1/500
BVH (80°-90°)	9.3	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	901.8	901.8	901.8	901.8	901.8	901.8	901.8	901.8	901.8	901.8	901.8
2.5°	938.0	942.7	940.3	937.1	935.1	933.1	930.2	921.8	915.1	907.9	896.6
5°	945.0	947.9	945.8	941.8	937.1	935.1	929.6	918.6	907.9	895.7	878.9
7.5°	940.9	942.1	939.8	934.8	930.8	927.0	920.6	908.4	895.4	880.6	858.6
10°	926.4	930.8	930.8	926.7	922.7	920.6	914.2	902.7	890.8	874.0	847.9
12.5°	914.5	919.2	922.9	921.8	921.5	921.5	916.6	907.9	894.0	878.0	847.0
15°	906.4	911.9	920.0	924.7	927.6	928.4	926.4	918.9	904.7	886.1	850.5
17.5°	904.7	911.3	926.1	936.3	943.8	943.5	942.9	932.5	916.9	897.7	854.8
20°	912.5	921.2	941.8	957.7	968.7	966.7	963.5	949.9	931.6	910.2	858.9
22.5°	936.0	945.0	967.6	985.0	995.7	995.7	986.1	968.2	948.7	924.7	864.4
25°	969.6	979.5	1003.5	1021.2	1026.1	1022.4	1012.8	991.1	968.7	945.6	876.0
27.5°	1010.8	1022.7	1045.0	1059.8	1058.3	1055.4	1045.6	1017.7	995.4	974.2	895.7
30°	1062.1	1070.8	1094.0	1097.4	1092.2	1091.6	1077.7	1049.9	1029.0	1012.8	923.8
32.5°	1110.5	1118.3	1136.9	1138.3	1129.0	1130.2	1117.2	1091.6	1079.8	1074.0	971.1
35°	1161.8	1165.9	1181.8	1180.1	1174.0	1173.1	1167.9	1143.5	1147.3	1157.7	1038.0
37.5°	1204.7	1212.8	1221.8	1223.2	1223.0	1225.9	1229.3	1217.7	1239.5	1272.2	1125.8
40°	1244.1	1251.1	1264.4	1269.0	1280.3	1286.1	1298.0	1298.3	1348.5	1402.4	1234.0
42.5°	1270.8	1282.7	1307.6	1316.0	1343.5	1360.9	1378.6	1397.5	1470.2	1539.5	1361.5
45°	1294.0	1309.6	1351.1	1377.2	1414.6	1435.7	1473.1	1512.5	1617.2	1707.9	1491.1
47.5°	1329.0	1343.0	1390.5	1436.6	1493.1	1517.5	1573.4	1632.2	1769.1	1868.5	1615.1
50°	1377.7	1386.2	1434.6	1509.6	1581.8	1613.1	1687.0	1772.0	1931.4	2027.1	1724.1
52.5°	1440.1	1443.5	1482.1	1582.1	1677.2	1716.0	1814.0	1913.1	2073.4	2164.7	1810.5
55°	1513.7	1507.9	1538.0	1658.9	1786.2	1836.9	1942.1	2056.0	2233.1	2276.0	1873.4
57.5°	1586.5	1577.5	1601.5	1752.3	1920.7	1981.8	2104.4	2203.3	2375.8	2380.1	1917.5
60°	1663.6	1656.9	1685.6	1861.8	2085.6	2158.1	2271.4	2356.1	2513.7	2452.6	1924.4
62.5°	1742.7	1732.0	1772.8	1985.0	2271.4	2337.2	2447.1	2518.4	2649.1	2479.5	1857.5
65°	1819.5	1814.6	1877.8	2131.4	2483.0	2557.8	2664.5	2712.9	2757.5	2439.0	1691.4
67.5°	1901.2	1911.1	2012.0	2326.8	2759.0	2852.9	2968.0	2922.5	2788.5	2246.8	1424.4
70°	2025.9	2032.3	2188.2	2582.7	3114.6	3228.0	3283.6	2997.0	2639.0	1881.8	1070.8
72.5°	2079.5	2107.6	2345.6	2851.4	3518.7	3588.0	3389.7	2830.9	2198.4	1278.3	562.6
73°	2067.6	2101.3	2352.9	2892.3	3550.3	3623.1	3367.1	2745.3	2043.6	1100.9	482.3
75°	1919.5	1961.0	2258.7	2858.1	3488.9	3445.4	3003.6	2339.8	1380.9	500.6	219.7
77.5°	1514.6	1526.4	1789.6	2307.9	2747.4	2666.8	2247.9	1462.4	564.1	186.1	124.6
80°	759.7	803.5	1008.7	1322.1	1837.2	1810.8	1418.9	691.6	235.1	109.3	82.6
82.5°	365.5	396.5	491.3	644.7	1015.1	991.1	702.6	378.0	149.3	63.8	48.7
85°	235.4	258.6	312.8	307.6	417.4	398.6	315.7	286.1	88.4	33.3	33.9
87.5°	155.4	170.2	204.1	163.2	151.9	137.4	139.4	161.2	17.4	12.8	4.6
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°	901.8	901.8	901.8	901.8	901.8	901.8	901.8	901.8	901.8	901.8	901.8
2.5°	891.9	888.2	875.7	863.5	851.9	840.9	833.7	824.1	817.7	819.5	822.1
5°	869.6	861.2	839.2	817.7	797.4	773.4	753.9	738.3	726.4	722.1	721.2
7.5°	846.1	831.9	800.3	763.5	729.0	699.2	664.7	647.6	627.6	620.6	618.3
10°	831.9	812.8	768.4	717.1	665.2	615.7	578.3	547.9	520.3	515.1	512.5
12.5°	827.9	802.6	742.9	676.8	607.9	547.0	491.6	451.6	424.9	418.9	409.9
15°	825.5	794.2	719.2	636.3	548.7	474.5	416.3	369.6	345.2	329.0	329.3
17.5°	823.5	784.7	692.5	591.9	497.7	412.2	347.8	305.8	283.5	274.8	273.9
20°	820.6	773.4	661.8	545.2	439.4	355.4	297.1	265.8	250.7	243.5	243.2
22.5°	819.5	762.4	631.6	497.7	387.8	311.6	263.5	241.5	231.9	227.0	227.0
25°	822.4	754.5	600.0	452.5	342.0	274.2	240.3	225.2	219.7	217.1	216.2
27.5°	831.3	751.0	568.7	407.3	300.0	248.7	224.6	214.2	210.2	208.1	208.4
30°	848.4	750.8	538.0	362.6	268.7	229.3	212.2	204.9	201.7	200.6	200.3
32.5°	876.0	757.1	507.8	325.8	242.3	213.1	200.6	195.4	193.9	193.1	192.8
35°	922.7	775.1	478.0	292.2	222.0	198.6	189.6	187.0	184.9	185.8	186.1
37.5°	985.6	806.1	449.6	265.8	206.7	187.8	180.3	178.0	176.8	177.7	178.6
40°	1069.9	850.8	425.8	244.6	195.7	178.8	172.2	170.2	169.0	170.4	170.7
42.5°	1163.0	902.4	406.1	228.1	186.7	171.3	164.9	162.6	161.7	162.6	162.9
45°	1258.6	962.4	396.0	216.2	179.1	165.8	159.1	156.5	154.5	153.9	154.8
47.5°	1352.8	1014.5	395.7	209.0	173.1	160.9	153.6	150.7	148.1	146.7	146.4
50°	1429.6	1056.0	402.6	205.8	167.8	155.4	148.1	145.2	141.7	138.8	139.4
52.5°	1487.6	1082.9	405.8	204.4	164.9	149.6	142.3	139.7	135.7	131.9	131.9
55°	1525.0	1089.3	398.0	202.9	162.6	143.5	135.7	133.3	129.3	125.5	125.5
57.5°	1537.8	1069.6	369.9	199.4	160.3	138.3	129.0	127.0	123.8	120.0	119.4
60°	1508.2	1002.9	320.6	189.0	155.7	132.8	121.7	120.9	119.7	116.5	116.2
62.5°	1394.3	861.5	267.0	175.4	147.8	127.0	115.1	116.5	117.4	115.7	115.4
65°	1204.7	699.5	228.1	156.5	137.4	118.8	107.8	111.6	113.9	113.9	113.3
67.5°	977.1	537.1	192.2	140.3	124.4	107.8	99.7	102.6	104.4	103.8	105.2
70°	694.5	363.8	156.5	121.7	107.8	95.4	89.3	89.3	88.1	87.5	87.5
72.5°	336.8	207.8	127.0	101.7	91.9	81.5	76.5	74.5	72.2	71.9	70.4
73°	281.5	186.4	121.2	98.0	88.1	79.4	73.9	70.7	69.3	68.1	67.8
75°	171.3	141.5	101.2	82.6	75.1	68.4	63.5	60.6	59.1	58.3	58.0
77.5°	112.8	105.5	78.6	63.2	57.4	53.3	51.3	48.4	47.5	46.4	46.4
80°	84.1	80.6	56.2	44.6	41.2	37.7	37.1	36.5	34.2	32.8	32.2
82.5°	54.2	57.4	38.3	29.9	26.1	23.2	23.5	24.3	22.0	20.0	19.4
85°	38.6	41.5	23.2	13.6	11.0	9.6	10.7	9.6	9.9	7.8	6.4
87.5°	6.4	11.0	4.1	1.7	0.9	0.6	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)