

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: P450498

Luminaire Tested: **GALN-SA1B-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450498  
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-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5790 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

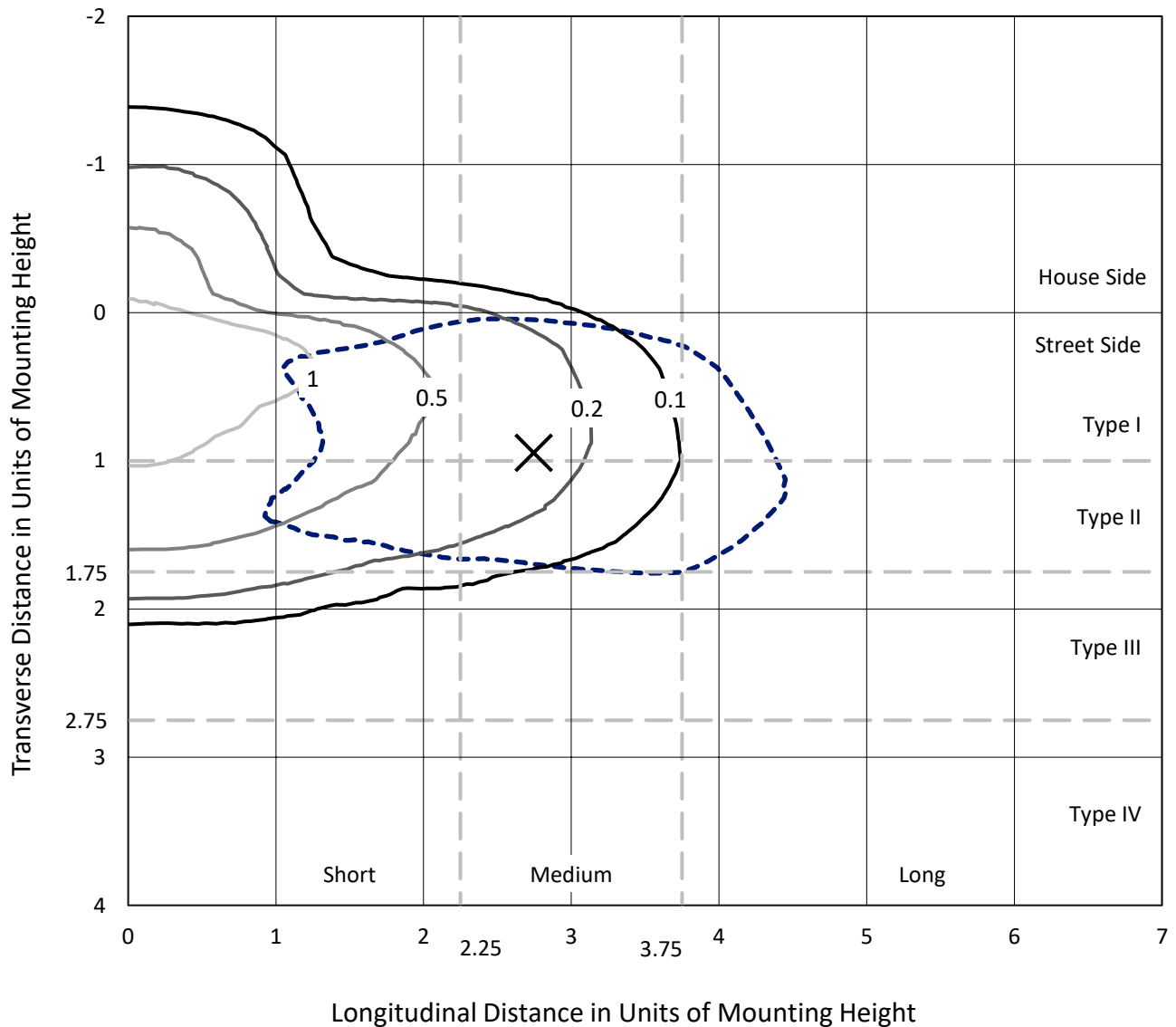
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

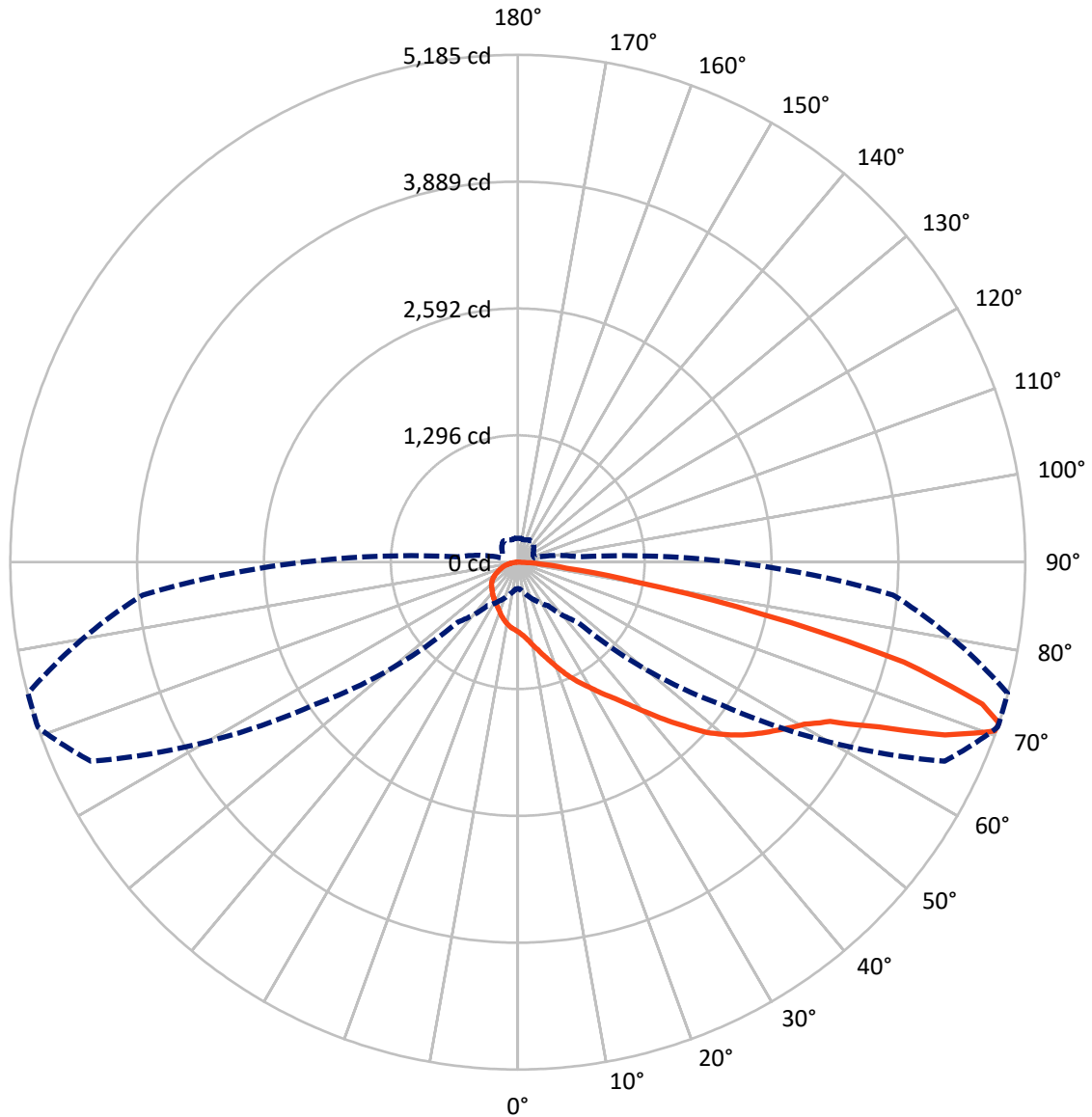
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1041.3	0.0	1041.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	4748.7	0.0	4748.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	5790.0	0.0	5790.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	1.2
10°-20°	231.8	4.0
20°-30°	405.1	7.0
30°-40°	602.5	10.4
40°-50°	887.8	15.3
50°-60°	1242.9	21.5
60°-70°	1390.1	24.0
70°-80°	849.2	14.7
80°-90°	109.2	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°	5790.0	100.0
0°-180°	5790.0	100.0

**Coefficient of Utilization**



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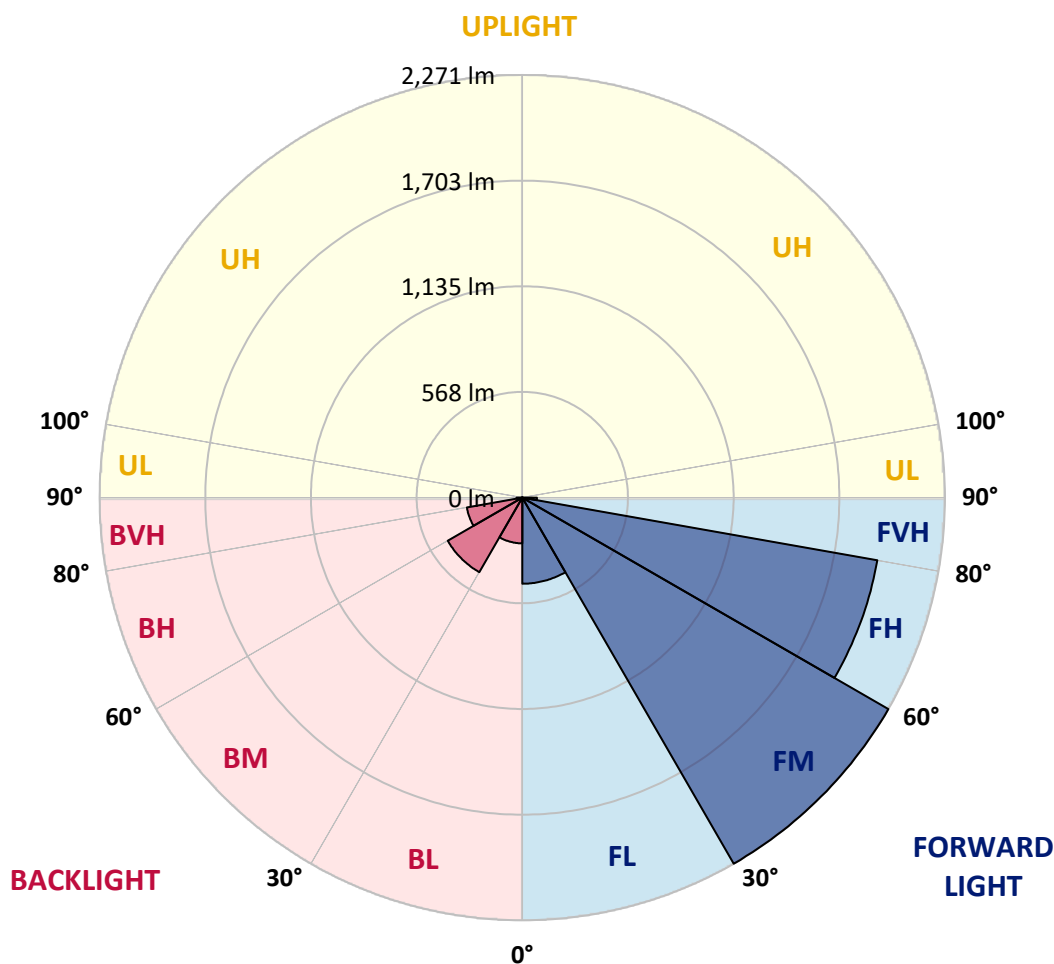
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.6	8.0			
FM (30°-60°)	2270.7	39.2			
FH (60°-80°)	1936.7	33.4			G2/5000
FVH (80°-90°)	78.6	1.4			G1/100
BL (0°-30°)	245.6	4.2	B1/500		
BM (30°-60°)	462.5	8.0	B1/1000		
BH (60°-80°)	302.5	5.2	B1/500		G1/500
BVH (80°-90°)	30.6	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-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6
2.5°	788.9	785.1	785.4	780.0	773.0	765.3	754.5	745.0	737.3	732.9	719.8
5°	874.2	870.4	865.6	853.8	848.7	829.9	806.1	784.4	767.9	758.7	732.6
7.5°	943.2	942.3	941.0	934.3	921.3	895.2	874.8	837.3	812.8	795.3	750.7
10°	985.9	987.5	988.4	989.7	984.3	970.6	942.6	895.2	864.0	841.7	774.3
12.5°	1007.5	1009.1	1014.5	1026.3	1033.6	1032.0	1009.1	962.6	919.7	890.4	799.4
15°	1020.9	1023.4	1033.0	1048.6	1073.1	1088.7	1077.5	1034.6	987.5	952.8	829.3
17.5°	1035.5	1038.4	1048.9	1071.2	1103.3	1137.0	1149.1	1112.2	1061.0	1019.6	862.7
20°	1043.8	1047.6	1062.6	1091.8	1129.4	1178.4	1218.5	1199.1	1143.1	1097.3	901.2
22.5°	1057.2	1060.3	1073.1	1104.3	1149.1	1210.5	1287.9	1283.7	1234.4	1175.2	943.6
25°	1093.4	1098.5	1104.9	1123.7	1167.0	1243.3	1345.5	1374.1	1322.9	1256.7	982.4
27.5°	1161.9	1166.0	1165.7	1168.2	1192.7	1271.6	1395.4	1463.5	1410.7	1339.1	1019.9
30°	1239.8	1241.4	1242.7	1237.0	1242.4	1300.6	1441.3	1552.0	1499.2	1423.8	1052.7
32.5°	1334.7	1337.8	1327.0	1312.4	1307.9	1343.6	1479.1	1640.5	1603.9	1509.7	1085.2
35°	1446.7	1454.9	1433.0	1407.2	1389.1	1405.3	1530.1	1730.9	1711.1	1619.5	1128.1
37.5°	1574.6	1584.8	1564.4	1513.8	1488.0	1492.5	1596.6	1842.6	1846.7	1744.5	1192.1
40°	1679.3	1692.7	1693.3	1621.7	1582.6	1587.7	1680.9	1962.8	2010.3	1899.2	1267.5
42.5°	1748.4	1761.4	1775.1	1733.1	1692.0	1721.0	1779.2	2093.3	2194.2	2087.0	1372.8
45°	1824.1	1835.9	1843.5	1824.4	1801.5	1876.6	1897.9	2232.1	2390.2	2296.7	1488.0
47.5°	1911.9	1925.0	1932.3	1914.2	1905.6	2013.1	2025.9	2361.6	2599.6	2500.3	1615.3
50°	2029.0	2038.9	2035.1	2023.6	2021.7	2117.8	2148.7	2482.8	2772.4	2719.6	1747.4
52.5°	2174.8	2186.6	2190.7	2174.5	2167.1	2192.6	2247.7	2593.3	2929.6	2908.0	1888.4
55°	2262.9	2281.7	2344.7	2370.2	2387.7	2289.3	2354.3	2715.1	3070.6	3106.6	2039.9
57.5°	2150.0	2174.1	2315.1	2442.4	2606.9	2531.2	2505.4	2842.4	3211.6	3299.1	2221.2
60°	1874.4	1879.8	2061.5	2296.0	2627.0	2842.1	2820.8	3044.8	3364.3	3493.2	2460.2
62.5°	1300.3	1311.7	1526.6	1900.8	2379.4	2954.1	3357.3	3394.2	3583.3	3783.8	2810.6
65°	670.5	655.6	851.3	1194.6	1793.9	2688.1	3792.0	4036.8	4058.1	4238.2	3303.9
67.5°	412.7	419.4	511.1	697.6	1060.7	1953.6	3746.5	4821.8	4709.5	4796.0	3761.8
70°	310.0	318.2	381.2	477.3	646.6	1117.0	3013.0	5012.1	5169.0	5146.7	3901.2
71°	269.5	278.1	343.7	434.4	543.2	862.1	2538.5	4812.9	5184.9	5181.1	3848.7
72.5°	229.8	235.2	286.4	367.9	457.9	604.3	1907.2	4316.5	4963.8	5090.7	3661.2
75°	180.4	184.6	207.5	280.7	360.6	371.1	1023.4	3236.1	4076.8	4318.7	3048.0
77.5°	147.0	149.9	161.7	208.4	278.1	262.9	536.9	2106.4	2554.1	2797.6	1795.5
80°	116.8	120.0	127.0	141.3	208.4	187.4	256.2	1067.3	1233.8	1231.2	716.7
82.5°	90.7	91.7	99.9	103.7	142.6	133.0	138.7	451.9	500.6	517.1	258.7
85°	57.3	60.1	88.5	79.6	85.3	78.0	68.4	179.5	221.2	218.0	103.4
87.5°	17.5	18.5	29.9	33.7	37.9	34.1	25.1	52.8	64.6	70.0	25.8
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°	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6	710.6
2.5°	714.7	711.2	698.8	688.7	679.1	668.6	659.7	657.1	654.9	654.0	653.6
5°	721.4	710.9	686.4	666.4	650.5	635.8	626.6	622.5	618.3	618.3	619.6
7.5°	731.0	711.9	674.0	644.1	624.0	610.4	603.7	603.0	604.0	605.0	605.3
10°	741.5	711.2	655.9	618.6	600.8	594.5	594.8	600.2	605.3	609.1	609.7
12.5°	751.7	707.4	634.6	594.8	583.3	584.6	593.5	605.6	615.5	620.9	621.2
15°	763.1	701.4	608.8	572.2	568.4	578.2	594.8	613.2	628.2	637.1	638.1
17.5°	772.7	691.2	581.7	550.2	555.0	573.1	596.0	619.9	638.1	649.2	651.1
20°	783.5	678.1	553.7	529.2	542.9	567.4	593.5	619.3	638.1	648.9	651.4
22.5°	792.1	659.7	527.0	512.0	532.1	560.4	584.9	605.6	620.9	626.6	630.4
25°	795.6	636.5	501.8	498.0	523.5	548.9	565.5	577.3	582.0	581.4	583.0
27.5°	793.7	609.7	480.2	486.9	512.7	531.1	539.4	538.4	529.9	521.9	525.7
30°	785.7	577.9	462.1	475.4	498.7	508.9	507.6	495.2	478.9	464.0	464.9
32.5°	771.4	543.5	445.2	462.4	478.9	483.4	474.8	458.6	435.3	415.9	413.1
35°	759.3	510.8	430.2	447.4	459.2	457.0	448.7	427.7	406.7	389.5	386.6
37.5°	757.4	482.8	415.9	430.6	437.2	434.1	423.9	406.1	398.4	385.4	383.8
40°	767.6	463.0	401.3	412.7	415.9	413.4	402.2	392.1	399.1	395.9	395.9
42.5°	795.3	452.5	388.2	394.9	397.5	399.4	391.4	382.8	391.4	376.8	372.0
45°	839.2	452.8	376.5	377.4	385.1	391.7	386.3	373.6	369.1	339.9	334.1
47.5°	903.8	463.7	366.9	360.9	374.6	385.7	378.1	359.6	339.9	320.5	317.0
50°	979.2	483.1	358.3	343.7	360.6	378.1	372.3	350.7	330.3	318.5	316.3
52.5°	1062.9	507.6	347.8	324.6	343.4	374.6	373.6	349.4	321.4	313.5	311.5
55°	1166.3	531.8	334.8	302.3	328.1	371.7	370.1	338.9	319.5	313.8	313.1
57.5°	1286.6	566.8	316.0	279.7	310.6	359.9	356.4	332.6	313.1	309.0	308.7
60°	1480.4	621.2	289.3	259.0	292.8	339.2	343.7	321.7	303.0	302.0	301.7
62.5°	1735.3	697.6	261.6	237.7	272.1	312.5	325.2	307.1	292.1	296.9	297.5
65°	2087.3	761.8	232.9	219.6	249.2	286.7	307.7	293.4	280.0	289.3	289.3
67.5°	2316.7	763.1	206.8	200.8	225.9	265.1	289.3	277.2	264.4	280.0	280.7
70°	2269.0	668.6	185.2	181.1	203.3	241.9	268.9	259.4	244.7	258.7	253.6
71°	2192.0	616.1	176.6	173.4	194.4	230.7	259.4	251.4	236.8	246.0	243.1
72.5°	2069.1	534.9	162.6	163.3	181.1	216.7	246.0	237.7	223.1	228.2	227.2
75°	1749.0	467.2	139.1	141.9	155.6	192.8	219.3	212.9	197.9	197.9	197.0
77.5°	1093.4	326.5	115.5	117.1	132.1	165.2	188.4	183.0	168.7	163.9	162.6
80°	408.0	168.7	90.4	92.3	101.5	130.2	155.9	150.8	136.2	130.8	125.7
82.5°	154.3	84.6	66.5	64.9	74.8	99.3	122.2	116.2	104.7	91.7	87.8
85°	58.2	42.0	40.7	39.5	43.9	58.9	75.7	74.5	62.4	53.1	52.2
87.5°	15.3	13.7	15.9	11.8	12.4	11.1	11.5	4.8	2.2	1.0	0.6
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)