

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: P450504

Luminaire Tested: **GALN-SA1B-740-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
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-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5892 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

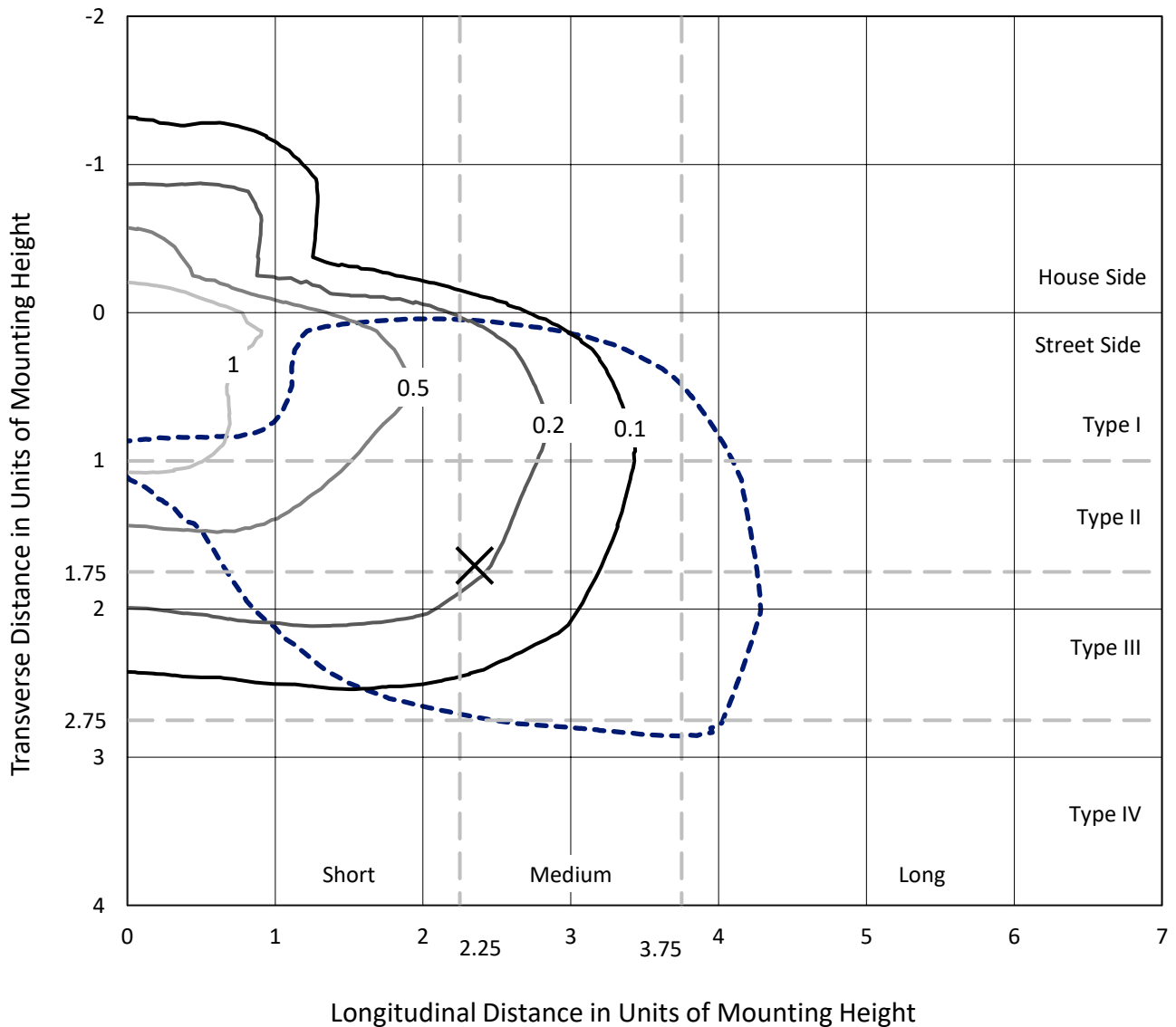
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

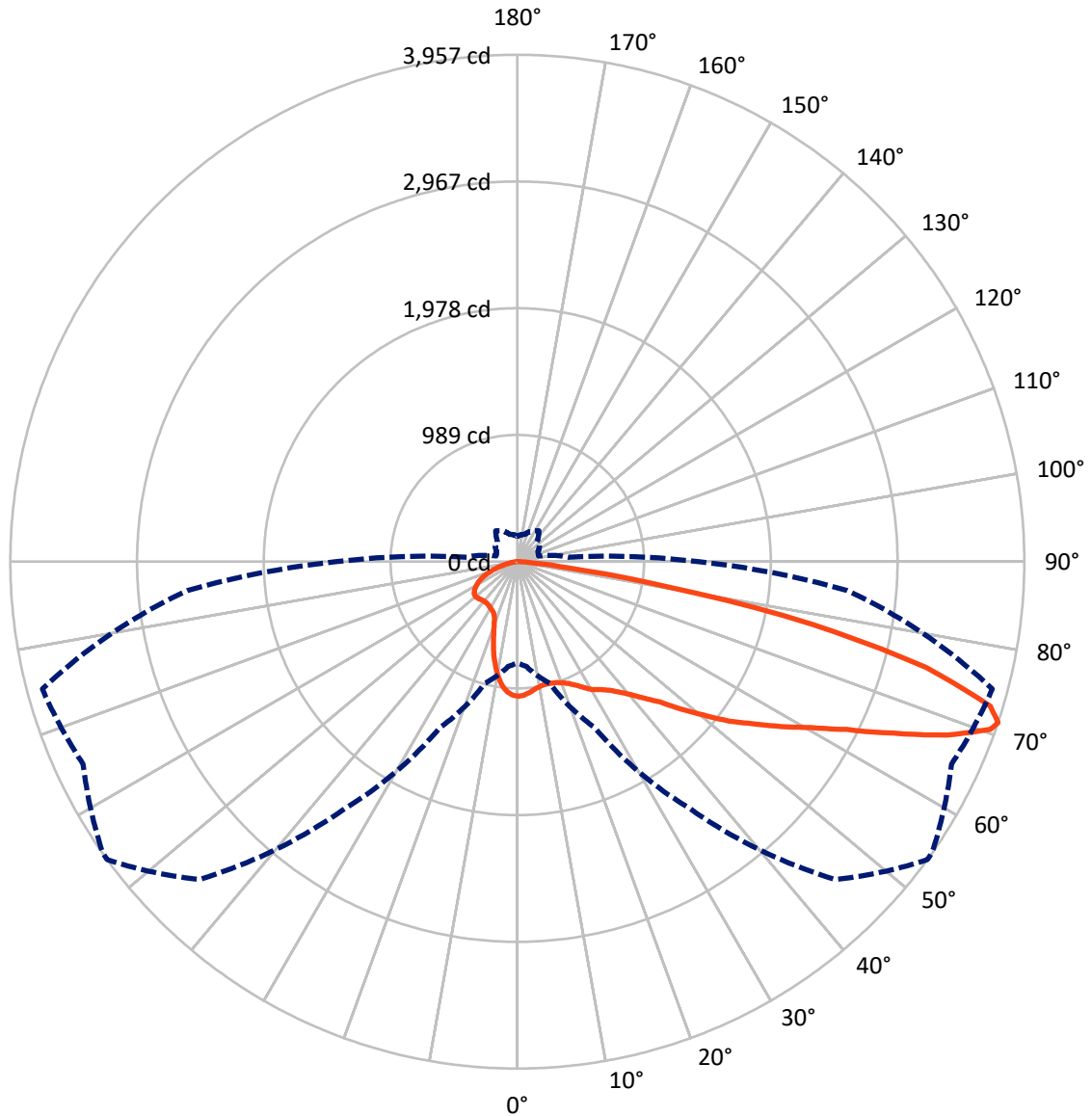
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1063.8	0.0	1063.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4828.2	0.0	4828.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	5892.0	0.0	5892.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	1.6
10°-20°	247.4	4.2
20°-30°	411.9	7.0
30°-40°	609.0	10.3
40°-50°	857.8	14.6
50°-60°	1148.7	19.5
60°-70°	1447.8	24.6
70°-80°	988.8	16.8
80°-90°	87.0	1.5
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°	5892.0	100.0
0°-180°	5892.0	100.0



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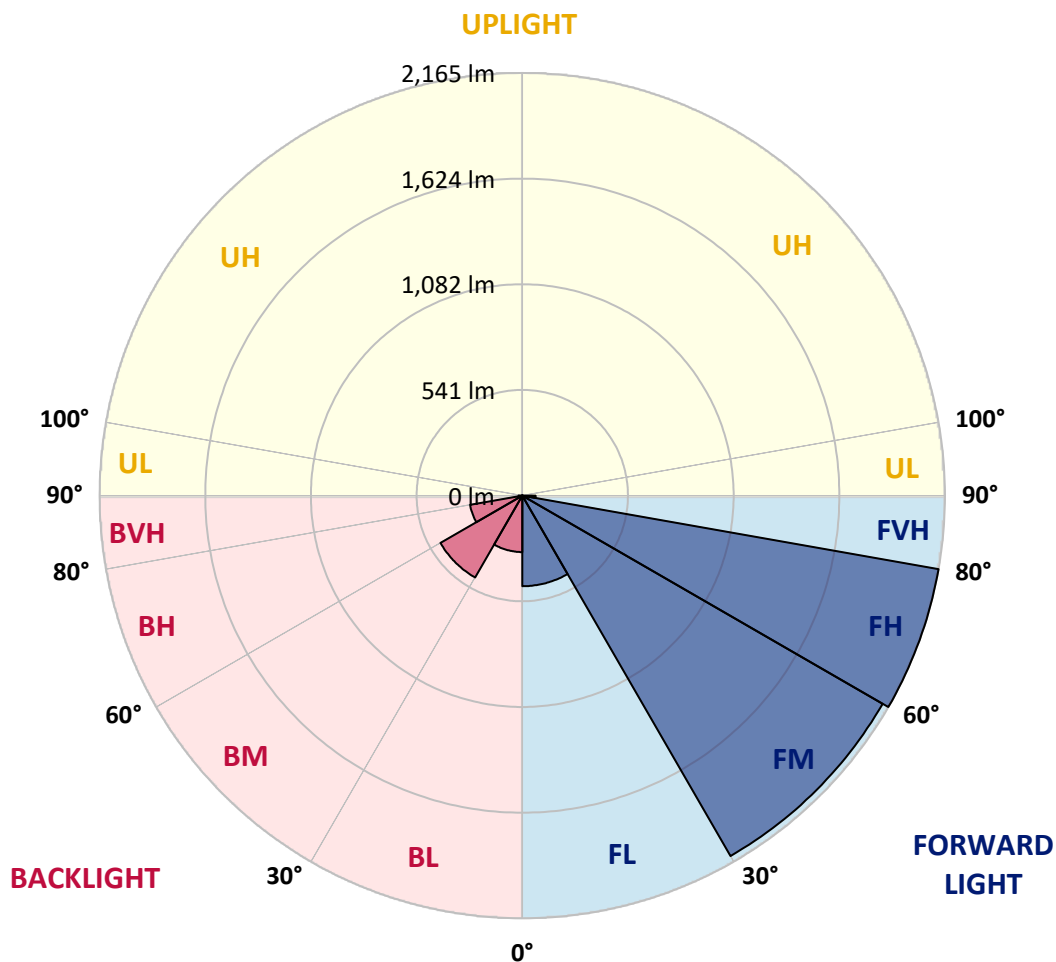
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	463.8	7.9			
FM	(30°-60°)	2131.5	36.2			
FH	(60°-80°)	2165.0	36.7			G2/5000
FVH	(80°-90°)	68.0	1.2			G1/100
BL	(0°-30°)	289.1	4.9	B1/500		
BM	(30°-60°)	484.0	8.2	B1/1000		
BH	(60°-80°)	271.7	4.6	B1/500		G1/500
BVH	(80°-90°)	19.0	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1015.6	1020.3	1021.6	1024.8	1031.5	1036.9	1042.3	1041.7	1049.3	1052.5	1055.4
5°	970.4	971.7	976.4	982.8	994.6	1009.5	1024.2	1024.5	1043.3	1058.2	1065.5
7.5°	937.3	941.4	944.6	951.3	963.7	979.9	1003.2	1005.1	1038.5	1068.1	1083.7
10°	915.6	920.4	923.9	932.2	944.6	962.7	987.9	991.4	1035.0	1083.7	1111.1
12.5°	895.9	900.7	903.9	914.7	930.9	953.2	981.5	985.7	1036.3	1101.8	1141.0
15°	908.0	911.8	910.5	913.7	924.6	950.0	984.1	988.2	1041.0	1119.3	1170.6
17.5°	961.8	965.0	954.5	942.4	937.3	956.1	992.0	996.5	1050.6	1137.5	1200.8
20°	1041.0	1049.6	1026.7	999.7	975.2	977.7	1008.6	1013.3	1064.0	1155.6	1231.7
22.5°	1144.2	1150.5	1122.5	1078.0	1032.8	1009.5	1033.4	1036.3	1084.0	1179.2	1265.4
25°	1265.4	1269.2	1230.4	1173.1	1107.9	1064.0	1067.5	1072.5	1117.1	1205.9	1295.3
27.5°	1383.2	1395.3	1350.4	1280.4	1194.4	1121.2	1114.2	1117.4	1153.1	1220.9	1316.0
30°	1522.9	1521.9	1474.5	1393.4	1283.2	1183.6	1158.5	1157.8	1172.5	1228.2	1331.0
32.5°	1634.3	1647.3	1600.9	1512.4	1384.8	1248.2	1189.0	1187.8	1187.4	1240.9	1353.3
35°	1760.9	1762.9	1720.2	1631.1	1494.6	1329.4	1231.7	1225.3	1218.0	1268.3	1383.5
37.5°	1874.2	1883.2	1844.0	1744.1	1602.5	1413.7	1290.2	1286.1	1263.8	1315.7	1431.9
40°	1962.7	1969.4	1945.9	1850.7	1708.7	1504.7	1364.7	1357.1	1330.0	1393.4	1496.5
42.5°	1991.7	2005.4	2014.6	1967.8	1831.0	1612.6	1456.4	1446.8	1426.1	1511.1	1570.9
45°	1993.9	2015.6	2064.2	2066.5	1953.8	1741.8	1563.3	1556.6	1555.0	1662.0	1675.7
47.5°	1977.0	1999.0	2080.8	2125.0	2063.3	1872.3	1717.7	1707.2	1708.1	1848.5	1793.1
50°	1936.3	1962.4	2061.7	2162.6	2148.9	2007.9	1880.6	1877.1	1896.8	2061.4	1915.0
52.5°	1859.6	1891.1	2042.0	2186.1	2212.6	2124.7	2065.8	2056.0	2105.9	2292.4	2048.3
55°	1647.3	1694.7	1969.7	2199.2	2273.0	2236.4	2232.6	2250.4	2316.6	2544.5	2195.1
57.5°	1536.6	1572.2	1812.8	2201.4	2349.4	2366.3	2427.4	2431.8	2547.7	2812.2	2360.9
60°	1476.1	1507.6	1726.9	2186.8	2456.0	2527.0	2626.6	2642.5	2773.3	3102.1	2532.7
62.5°	1423.3	1450.3	1675.3	2136.2	2576.3	2765.4	2884.7	2892.4	3029.5	3422.3	2702.4
65°	1298.8	1329.7	1571.6	2085.6	2680.1	3063.3	3227.2	3218.3	3302.3	3698.5	2808.7
67.5°	1131.1	1170.3	1377.8	1910.8	2731.3	3388.9	3612.9	3601.8	3571.5	3879.6	2839.2
70°	916.9	937.9	1129.8	1608.8	2526.7	3559.8	3917.5	3905.7	3738.3	3903.5	2694.7
71°	789.0	821.8	983.7	1429.0	2356.4	3507.6	3956.6	3953.5	3738.6	3837.6	2585.9
72.5°	615.8	635.9	779.1	1107.2	2002.8	3210.9	3859.9	3872.0	3657.5	3654.6	2361.5
75°	389.6	398.5	488.9	651.8	1099.0	2274.0	3295.0	3327.7	3247.5	2991.3	1756.2
77.5°	226.3	237.7	292.8	384.1	474.8	1234.2	2357.7	2393.3	2256.5	1647.0	719.0
80°	131.8	144.5	192.9	223.1	218.0	458.0	1200.5	1261.3	977.1	416.0	201.8
82.5°	73.2	81.8	135.6	135.9	116.2	149.6	377.8	395.3	278.8	167.7	82.4
85°	53.1	60.2	87.5	79.2	55.7	64.3	131.4	137.8	112.7	70.7	26.7
87.5°	18.8	26.7	48.1	38.2	15.3	13.4	37.9	30.9	28.6	19.7	6.0
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°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1056.9	1057.6	1054.4	1048.7	1042.9	1035.6	1027.4	1021.0	1018.1	1017.8	1017.5
5°	1068.4	1070.0	1057.9	1040.1	1020.3	996.2	975.5	951.9	945.9	936.3	939.2
7.5°	1086.9	1085.9	1062.0	1024.2	978.0	926.8	883.5	858.4	832.3	824.9	825.3
10°	1113.3	1107.2	1062.0	991.7	914.7	838.6	778.2	740.0	719.3	702.1	695.7
12.5°	1141.3	1126.0	1051.9	946.2	833.2	740.0	675.0	623.5	610.1	596.1	596.4
15°	1168.0	1142.6	1031.8	882.2	745.4	634.6	571.6	540.7	536.6	538.2	537.9
17.5°	1192.2	1154.3	1001.3	810.9	642.9	544.2	510.8	513.0	524.2	532.1	533.1
20°	1216.7	1161.3	955.7	715.5	546.1	489.5	490.8	508.3	525.1	536.0	537.5
22.5°	1239.9	1164.5	902.3	623.2	476.1	466.3	485.0	503.8	520.4	530.9	532.5
25°	1255.2	1157.2	826.5	526.7	441.7	458.0	477.7	493.6	507.6	518.4	521.0
27.5°	1259.4	1133.6	732.6	448.7	425.8	450.0	468.2	479.9	490.8	500.9	502.9
30°	1257.1	1099.0	629.5	402.9	416.6	440.8	454.8	463.4	476.4	484.4	486.0
32.5°	1253.6	1058.5	522.0	378.4	409.0	432.2	440.5	448.1	447.8	444.6	446.8
35°	1254.9	1010.2	434.7	363.8	402.3	425.8	432.8	423.3	395.9	394.6	393.4
37.5°	1261.6	962.4	371.4	353.6	398.8	424.9	428.7	384.8	360.6	349.5	346.6
40°	1278.8	906.7	329.7	346.0	398.5	432.2	409.9	365.4	318.9	297.3	295.7
42.5°	1301.7	852.0	304.3	341.2	402.3	443.3	402.3	338.0	287.4	274.7	272.8
45°	1335.7	789.3	290.3	338.9	408.0	447.5	399.7	317.9	274.7	264.5	264.5
47.5°	1374.3	729.5	282.6	337.4	415.3	444.6	377.1	311.6	268.6	269.9	275.9
50°	1412.4	677.6	276.9	333.9	421.7	443.0	367.9	311.3	270.2	286.4	297.3
52.5°	1456.7	641.0	269.9	328.1	421.7	432.8	365.0	317.6	274.7	279.4	284.2
55°	1510.2	629.5	261.0	315.7	414.1	407.4	363.5	326.9	277.8	266.7	268.6
57.5°	1580.8	648.0	252.4	300.1	396.6	381.0	362.8	329.4	270.5	261.3	259.4
60°	1662.9	684.6	249.8	284.2	372.7	358.4	359.0	322.1	260.3	250.8	252.4
62.5°	1720.5	706.5	248.2	272.1	346.6	333.5	349.8	313.2	255.9	247.6	249.2
65°	1720.5	679.8	233.6	253.7	312.9	303.6	338.6	302.0	250.2	240.6	239.0
67.5°	1655.3	601.8	211.3	226.0	275.6	269.6	323.0	288.7	241.6	234.2	230.4
70°	1485.3	456.4	183.3	193.5	228.5	233.9	303.0	270.5	227.2	218.3	212.6
71°	1410.5	397.5	171.5	177.0	210.4	218.3	293.4	262.9	220.9	208.1	198.0
72.5°	1266.4	334.8	153.7	155.9	179.8	194.1	273.4	248.2	208.8	190.6	179.2
75°	962.1	244.4	123.8	122.5	133.0	154.0	231.4	221.2	183.0	158.5	151.8
77.5°	415.7	133.0	92.6	93.6	90.4	116.8	182.0	190.0	156.9	128.9	122.8
80°	126.0	76.7	63.3	64.6	60.5	78.3	128.3	148.9	126.0	100.3	92.0
82.5°	64.6	45.8	43.3	42.6	38.5	44.2	77.7	101.8	90.1	62.7	55.4
85°	28.0	24.5	21.3	20.7	18.1	15.9	27.7	50.9	47.7	35.0	33.4
87.5°	7.0	6.4	4.1	3.8	2.2	0.3	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)