

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: P458676

Luminaire Tested: **GALN-SA2B-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458676
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-SA2B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10720 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

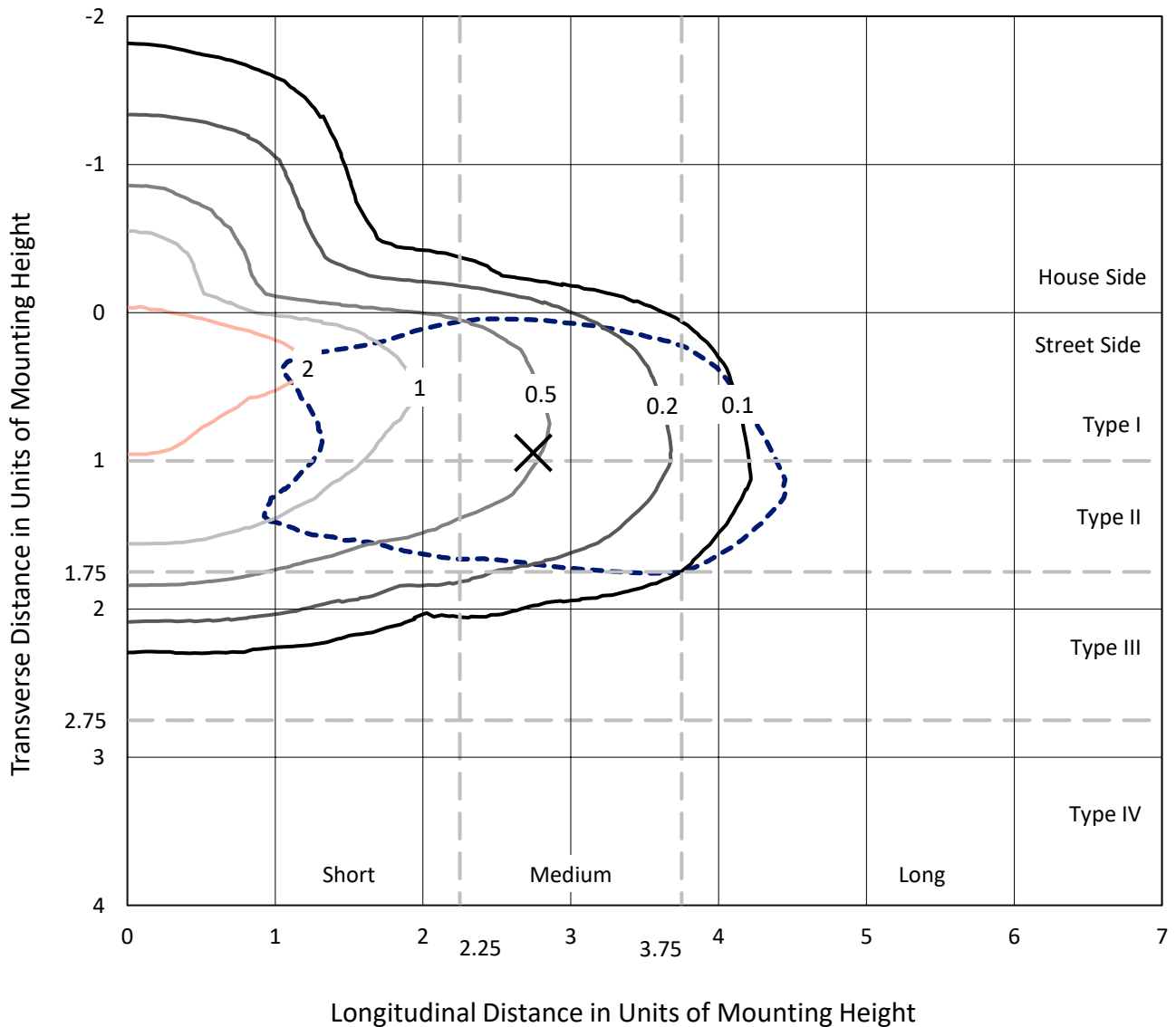
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

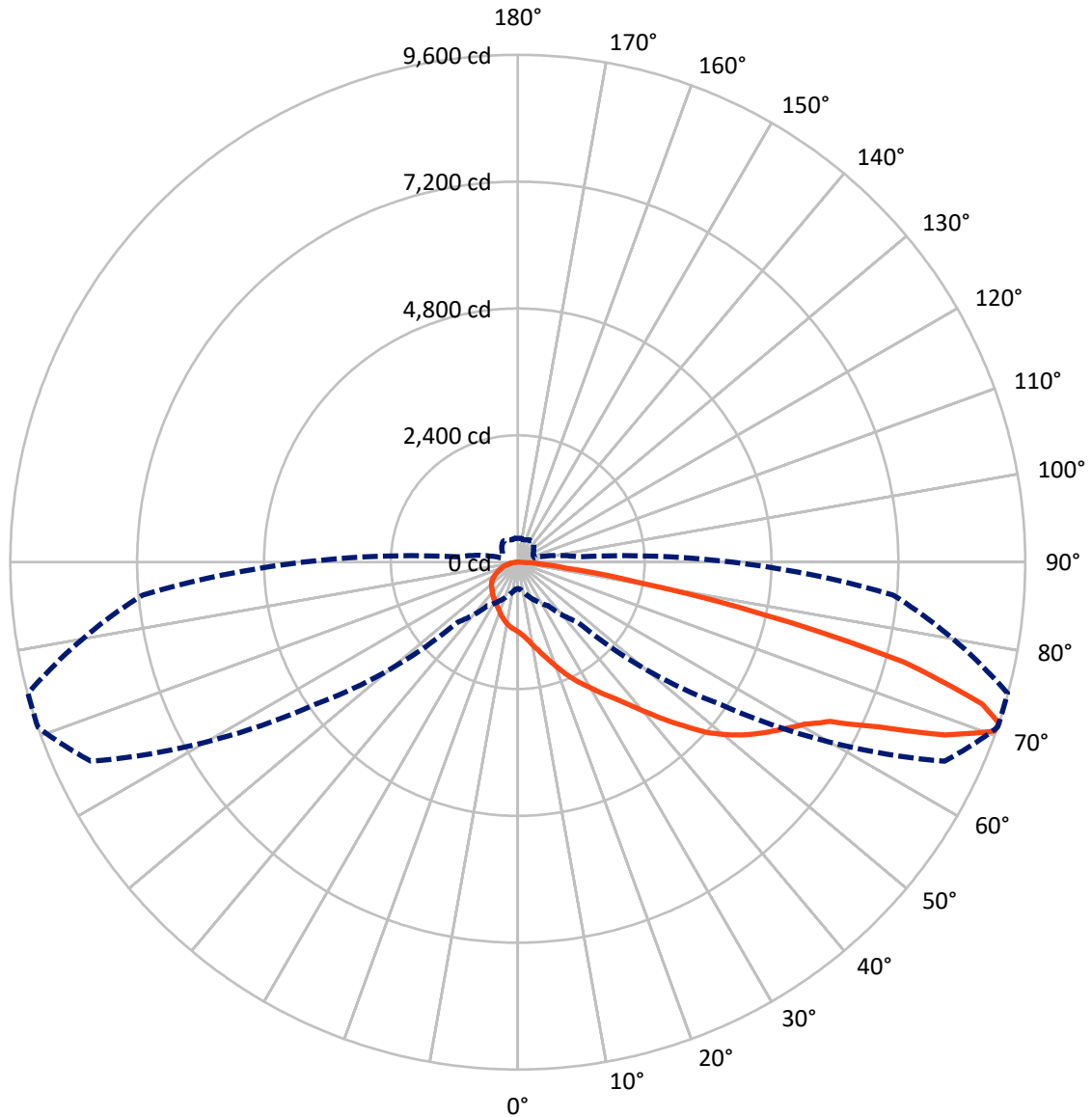
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	1928.0	0.0	1928.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	8792.0	0.0	8792.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	10720.0	0.0	10720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.2
10°-20°	429.2	4.0
20°-30°	750.0	7.0
30°-40°	1115.6	10.4
40°-50°	1643.7	15.3
50°-60°	2301.2	21.5
60°-70°	2573.8	24.0
70°-80°	1572.2	14.7
80°-90°	202.2	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°	10720.0	100.0
0°-180°	10720.0	100.0

Coefficient of Utilization



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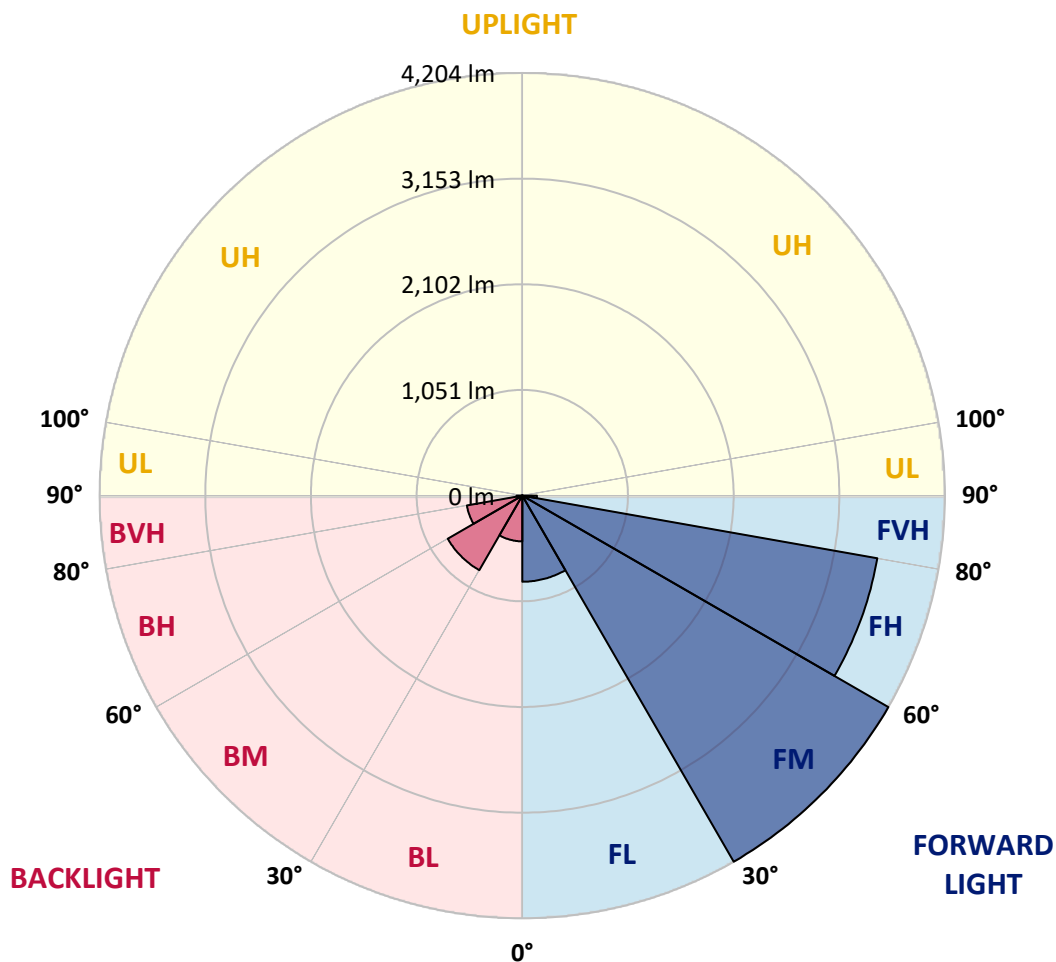
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.5	8.0			
FM (30°-60°)	4204.2	39.2			
FH (60°-80°)	3585.8	33.4			G2/5000
FVH (80°-90°)	145.5	1.4			G2/225
BL (0°-30°)	454.8	4.2	B1/500		
BM (30°-60°)	856.3	8.0	B1/1000		
BH (60°-80°)	560.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	56.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7
2.5°	1460.6	1453.5	1454.1	1444.1	1431.2	1417.0	1397.0	1379.3	1365.2	1356.9	1332.8
5°	1618.5	1611.4	1602.6	1580.8	1571.4	1536.6	1492.4	1452.4	1421.7	1404.6	1356.3
7.5°	1746.4	1744.6	1742.2	1729.9	1705.7	1657.4	1619.7	1550.2	1504.8	1472.4	1389.9
10°	1825.3	1828.3	1830.0	1832.4	1822.4	1797.0	1745.2	1657.4	1599.7	1558.4	1433.5
12.5°	1865.4	1868.3	1878.3	1900.1	1913.7	1910.8	1868.3	1782.3	1702.8	1648.6	1480.1
15°	1890.1	1894.8	1912.5	1941.4	1986.8	2015.6	1995.0	1915.5	1828.3	1764.0	1535.4
17.5°	1917.2	1922.5	1942.0	1983.2	2042.7	2105.2	2127.6	2059.2	1964.4	1887.8	1597.3
20°	1932.6	1939.6	1967.3	2021.5	2091.0	2181.8	2256.0	2220.1	2116.4	2031.5	1668.6
22.5°	1957.3	1963.2	1986.8	2044.5	2127.6	2241.3	2384.5	2376.8	2285.5	2175.9	1747.0
25°	2024.5	2033.9	2045.7	2080.4	2160.6	2302.0	2491.1	2544.1	2449.3	2326.7	1818.8
27.5°	2151.1	2158.8	2158.2	2162.9	2208.3	2354.4	2583.6	2709.7	2611.9	2479.3	1888.4
30°	2295.5	2298.4	2300.8	2290.2	2300.2	2408.0	2668.5	2873.5	2775.7	2636.1	1949.1
32.5°	2471.1	2477.0	2456.9	2429.8	2421.6	2487.6	2738.6	3037.3	2969.5	2795.1	2009.1
35°	2678.5	2693.8	2653.1	2605.4	2571.8	2601.9	2832.8	3204.6	3168.1	2998.4	2088.7
37.5°	2915.3	2934.2	2896.5	2802.8	2755.1	2763.3	2956.0	3411.4	3419.1	3230.0	2207.1
40°	3109.2	3133.9	3135.1	3002.5	2930.1	2939.5	3112.1	3634.1	3721.9	3516.3	2346.8
42.5°	3237.0	3261.2	3286.5	3208.7	3132.7	3186.4	3294.2	3875.7	4062.5	3863.9	2541.8
45°	3377.3	3399.1	3413.2	3377.8	3335.4	3474.5	3513.9	4132.6	4425.4	4252.2	2755.1
47.5°	3539.9	3564.0	3577.6	3544.0	3528.1	3727.2	3750.8	4372.4	4813.1	4629.3	2990.7
50°	3756.7	3775.0	3767.9	3746.7	3743.1	3921.1	3978.2	4596.9	5133.1	5035.2	3235.3
52.5°	4026.5	4048.3	4056.0	4026.0	4012.4	4059.5	4161.5	4801.3	5424.1	5384.0	3496.3
55°	4189.8	4224.5	4341.2	4388.3	4420.7	4238.7	4358.9	5027.0	5685.1	5751.7	3776.7
57.5°	3980.6	4025.4	4286.4	4522.1	4826.7	4686.4	4638.7	5262.7	5946.1	6108.2	4112.6
60°	3470.3	3480.4	3816.8	4251.0	4863.8	5262.1	5222.6	5637.4	6229.0	6467.6	4555.1
62.5°	2407.4	2428.7	2826.4	3519.3	4405.4	5469.5	6216.0	6284.3	6634.3	7005.5	5203.8
65°	1241.4	1213.7	1576.1	2211.8	3321.3	4976.9	7020.8	7473.9	7513.4	7846.9	6117.0
67.5°	764.2	776.6	946.2	1291.5	1963.8	3617.1	6936.6	8927.5	8719.5	8879.7	6964.9
70°	573.9	589.2	705.9	883.8	1197.2	2068.1	5578.5	9279.8	9570.3	9529.0	7222.9
71°	499.0	515.0	636.3	804.2	1005.8	1596.1	4700.0	8911.0	9599.7	9592.7	7125.7
72.5°	425.4	435.4	530.3	681.1	847.8	1118.9	3531.0	7991.8	9190.2	9425.3	6778.7
75°	334.1	341.7	384.2	519.7	667.6	687.0	1894.8	5991.5	7548.2	7995.9	5643.3
77.5°	272.2	277.5	299.3	385.9	515.0	486.7	994.0	3899.9	4728.9	5179.6	3324.2
80°	216.2	222.1	235.1	261.6	385.9	347.0	474.3	1976.2	2284.3	2279.6	1326.9
82.5°	167.9	169.7	185.0	192.1	264.0	246.3	256.9	836.7	926.8	957.4	479.0
85°	106.1	111.4	163.8	147.3	157.9	144.4	126.7	332.3	409.5	403.6	191.5
87.5°	32.4	34.2	55.4	62.5	70.1	63.0	46.5	97.8	119.6	129.6	47.7
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°	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7	1315.7
2.5°	1323.3	1316.8	1293.9	1275.0	1257.3	1237.9	1221.4	1216.7	1212.6	1210.8	1210.2
5°	1335.7	1316.3	1270.9	1233.8	1204.3	1177.2	1160.1	1152.5	1144.8	1144.8	1147.2
7.5°	1353.4	1318.0	1247.9	1192.5	1155.4	1130.1	1117.7	1116.5	1118.3	1120.1	1120.6
10°	1372.8	1316.8	1214.3	1145.4	1112.4	1100.6	1101.2	1111.2	1120.6	1127.7	1128.9
12.5°	1391.7	1309.8	1174.9	1101.2	1080.0	1082.3	1098.8	1121.2	1139.5	1149.5	1150.1
15°	1412.9	1298.6	1127.1	1059.4	1052.3	1070.6	1101.2	1135.4	1163.1	1179.6	1181.3
17.5°	1430.6	1279.7	1077.0	1018.7	1027.6	1061.1	1103.6	1147.7	1181.3	1202.0	1205.5
20°	1450.6	1255.6	1025.2	979.8	1005.2	1050.5	1098.8	1146.6	1181.3	1201.4	1206.1
22.5°	1466.5	1221.4	975.7	948.0	985.1	1037.6	1082.9	1121.2	1149.5	1160.1	1167.2
25°	1473.0	1178.4	929.2	922.1	969.2	1016.4	1047.0	1068.8	1077.6	1076.5	1079.4
27.5°	1469.4	1128.9	889.1	901.5	949.2	983.4	998.7	996.9	981.0	966.3	973.3
30°	1454.7	1070.0	855.5	880.3	923.3	942.1	939.8	916.8	886.7	859.0	860.8
32.5°	1428.2	1006.3	824.3	856.1	886.7	895.0	879.1	849.0	806.0	770.1	764.8
35°	1405.8	945.7	796.6	828.4	850.2	846.1	830.8	791.9	753.0	721.2	715.9
37.5°	1402.3	893.8	770.1	797.2	809.6	803.7	784.8	751.8	737.7	713.5	710.6
40°	1421.1	857.3	743.0	764.2	770.1	765.4	744.7	725.9	738.8	733.0	733.0
42.5°	1472.4	837.8	718.8	731.2	735.9	739.4	724.7	708.8	724.7	697.6	688.8
45°	1553.7	838.4	697.0	698.8	712.9	725.3	715.3	691.7	683.5	629.3	618.7
47.5°	1673.3	858.5	679.3	668.1	693.5	714.1	700.0	665.8	629.3	593.3	586.8
50°	1812.9	894.4	663.4	636.3	667.6	700.0	689.4	649.3	611.6	589.8	585.7
52.5°	1967.9	939.8	644.0	601.0	635.7	693.5	691.7	646.9	595.1	580.4	576.8
55°	2159.4	984.5	619.8	559.7	607.5	688.2	685.2	627.5	591.6	580.9	579.8
57.5°	2382.1	1049.4	585.1	517.9	575.1	666.4	659.9	615.7	579.8	572.1	571.5
60°	2740.9	1150.1	535.6	479.6	542.1	628.1	636.3	595.7	560.9	559.1	558.6
62.5°	3212.9	1291.5	484.3	440.1	503.8	578.6	602.2	568.6	540.9	549.7	550.9
65°	3864.5	1410.5	431.3	406.5	461.3	530.9	569.7	543.2	518.5	535.6	535.6
67.5°	4289.3	1412.9	383.0	371.8	418.3	490.8	535.6	513.2	489.6	518.5	519.7
70°	4200.9	1237.9	342.9	335.3	376.5	447.8	497.9	480.2	453.1	479.0	469.6
71°	4058.4	1140.7	327.0	321.1	360.0	427.2	480.2	465.5	438.4	455.4	450.1
72.5°	3830.9	990.4	301.1	302.3	335.3	401.2	455.4	440.1	413.0	422.5	420.7
75°	3238.2	864.9	257.5	262.8	288.1	357.1	406.0	394.2	366.5	366.5	364.7
77.5°	2024.5	604.5	213.9	216.8	244.5	305.8	348.8	338.8	312.3	303.4	301.1
80°	755.3	312.3	167.3	170.9	188.0	241.0	288.7	279.3	252.2	242.2	232.7
82.5°	285.8	156.7	123.1	120.2	138.5	183.8	226.3	215.1	193.8	169.7	162.6
85°	107.8	77.8	75.4	73.1	81.3	109.0	140.2	137.9	115.5	98.4	96.6
87.5°	28.3	25.3	29.5	21.8	23.0	20.6	21.2	8.8	4.1	1.8	1.2
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)