

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: P452064

Luminaire Tested: **GALN-SA3A-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452064
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-SA3A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11482 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

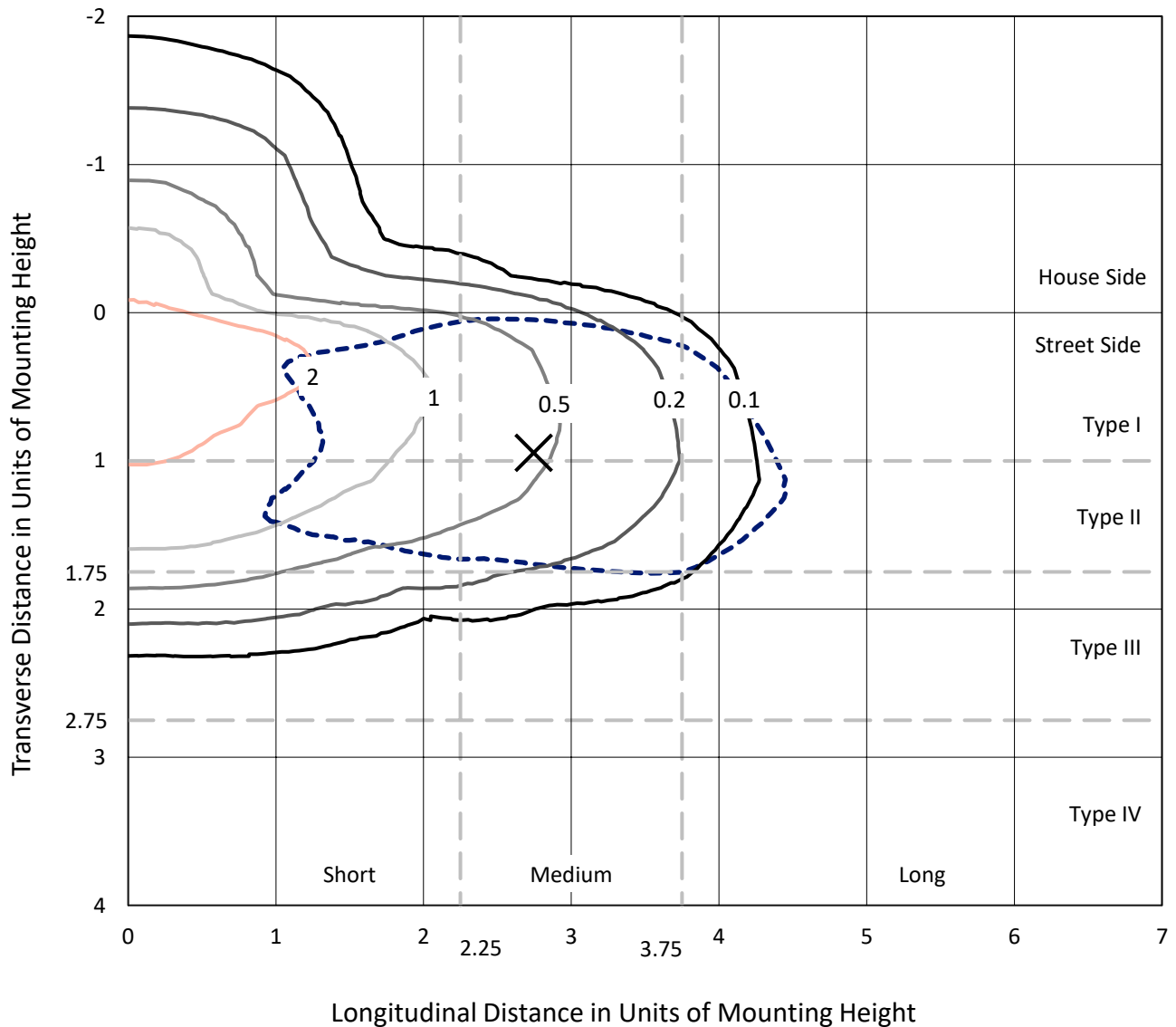
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

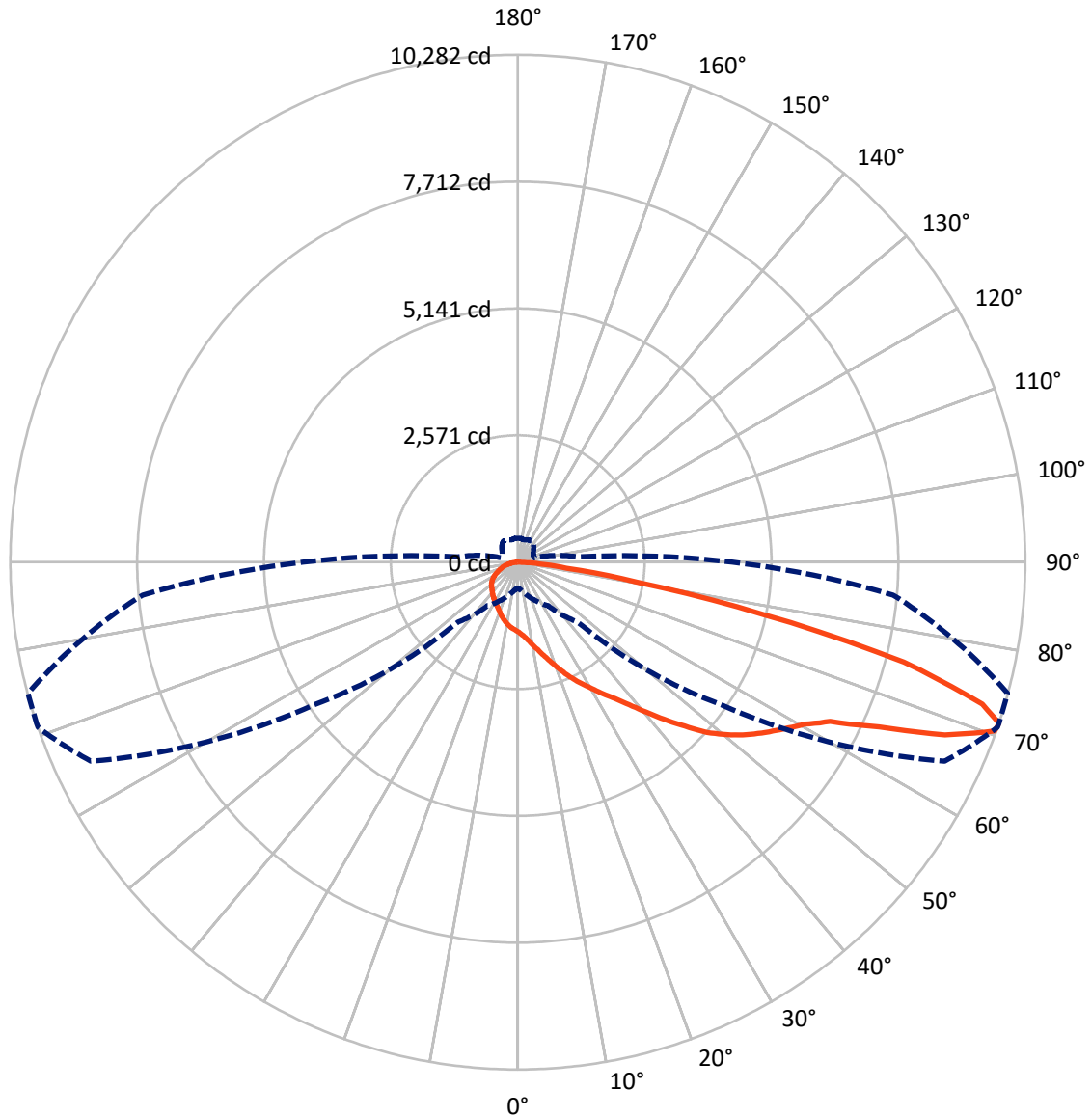
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	2065.0	0.0	2065.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	9417.0	0.0	9417.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	11482.0	0.0	11482.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	1.2
10°-20°	459.7	4.0
20°-30°	803.4	7.0
30°-40°	1194.9	10.4
40°-50°	1760.5	15.3
50°-60°	2464.8	21.5
60°-70°	2756.7	24.0
70°-80°	1683.9	14.7
80°-90°	216.6	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°	11482.0	100.0
0°-180°	11482.0	100.0



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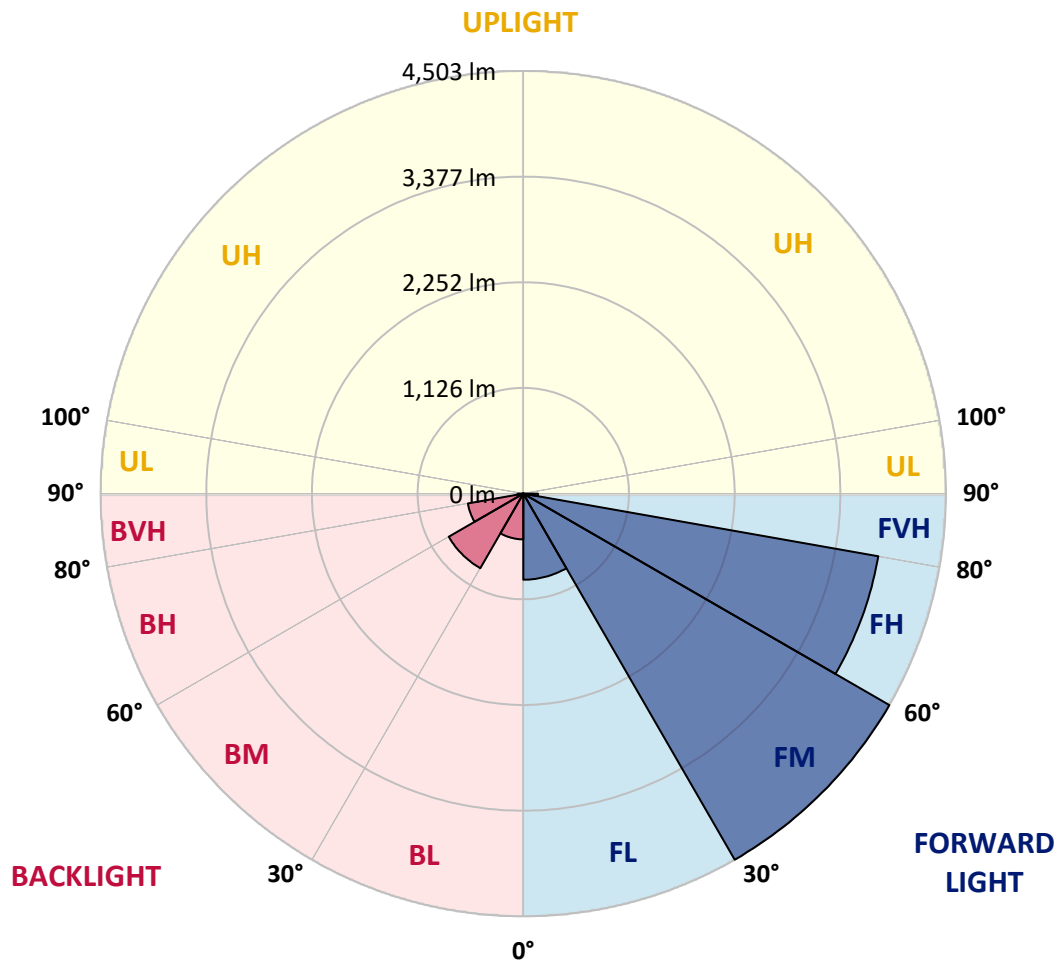
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.4	8.0			
FM (30°-60°)	4503.0	39.2			
FH (60°-80°)	3840.7	33.4			G2/5000
FVH (80°-90°)	155.9	1.4			G2/225
BL (0°-30°)	487.1	4.2	B1/500		
BM (30°-60°)	917.2	8.0	B1/1000		
BH (60°-80°)	600.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	60.8	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°	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2
2.5°	1564.4	1556.9	1557.5	1546.8	1532.9	1517.7	1496.3	1477.3	1462.2	1453.4	1427.5
5°	1733.6	1726.0	1716.5	1693.2	1683.1	1645.8	1598.5	1555.6	1522.8	1504.5	1452.7
7.5°	1870.5	1868.6	1866.1	1852.8	1827.0	1775.2	1734.8	1660.4	1611.8	1577.1	1488.7
10°	1955.1	1958.2	1960.1	1962.6	1951.9	1924.8	1869.2	1775.2	1713.4	1669.2	1535.4
12.5°	1998.0	2001.1	2011.9	2035.2	2049.7	2046.6	2001.1	1909.0	1823.8	1765.7	1585.3
15°	2024.5	2029.5	2048.5	2079.4	2128.0	2158.9	2136.8	2051.6	1958.2	1889.4	1644.6
17.5°	2053.5	2059.2	2080.0	2124.2	2187.9	2254.8	2278.8	2205.6	2104.0	2022.0	1710.8
20°	2069.9	2077.5	2107.2	2165.2	2239.7	2336.9	2416.4	2377.9	2266.8	2175.9	1787.2
22.5°	2096.4	2102.7	2128.0	2189.8	2278.8	2400.6	2554.0	2545.8	2447.9	2330.6	1871.1
25°	2168.4	2178.5	2191.1	2228.3	2314.1	2465.6	2668.2	2725.0	2623.4	2492.1	1948.1
27.5°	2304.1	2312.3	2311.6	2316.7	2365.3	2521.8	2767.3	2902.3	2797.6	2655.6	2022.6
30°	2458.7	2461.8	2464.3	2453.0	2463.7	2579.2	2858.1	3077.7	2973.0	2823.4	2087.6
32.5°	2646.7	2653.0	2631.6	2602.6	2593.7	2664.4	2933.2	3253.2	3180.6	2993.8	2152.0
35°	2868.9	2885.3	2841.7	2790.6	2754.6	2786.8	3034.2	3432.4	3393.3	3211.5	2237.2
37.5°	3122.6	3142.8	3102.4	3002.0	2950.9	2959.7	3166.1	3653.9	3662.1	3459.5	2364.0
40°	3330.2	3356.7	3357.9	3216.0	3138.3	3148.4	3333.3	3892.5	3986.5	3766.3	2513.6
42.5°	3467.1	3493.0	3520.1	3436.8	3355.4	3412.9	3528.3	4151.2	4351.3	4138.6	2722.5
45°	3617.3	3640.7	3655.8	3617.9	3572.5	3721.4	3763.7	4426.4	4740.0	4554.5	2950.9
47.5°	3791.5	3817.4	3831.9	3795.9	3778.9	3992.2	4017.4	4683.2	5155.2	4958.4	3203.3
50°	4023.7	4043.3	4035.7	4013.0	4009.2	4199.8	4261.0	4923.6	5497.9	5393.2	3465.2
52.5°	4312.8	4336.1	4344.3	4312.1	4297.6	4348.1	4457.3	5142.6	5809.7	5766.8	3744.8
55°	4487.6	4524.8	4649.8	4700.2	4735.0	4539.9	4668.7	5384.3	6089.2	6160.5	4045.2
57.5°	4263.5	4311.5	4591.1	4843.5	5169.8	5019.6	4968.4	5636.8	6368.8	6542.3	4404.9
60°	3717.0	3727.8	4088.1	4553.2	5209.5	5636.1	5593.8	6038.1	6671.7	6927.3	4878.8
62.5°	2578.6	2601.3	3027.3	3769.4	4718.5	5858.3	6657.8	6731.0	7105.9	7503.5	5573.6
65°	1329.7	1300.0	1688.1	2369.1	3557.4	5330.7	7519.9	8005.2	8047.5	8404.6	6551.8
67.5°	818.5	831.8	1013.5	1383.3	2103.4	3874.2	7429.6	9562.0	9339.3	9510.9	7459.9
70°	614.7	631.1	756.0	946.6	1282.3	2215.1	5975.0	9939.4	10250.5	10206.4	7736.3
71°	534.5	551.6	681.6	861.4	1077.2	1709.6	5034.1	9544.4	10282.1	10274.5	7632.2
72.5°	455.6	466.4	568.0	729.5	908.1	1198.4	3782.0	8559.9	9843.5	10095.3	7260.5
75°	357.8	366.0	411.5	556.6	715.0	735.8	2029.5	6417.4	8084.7	8564.3	6044.4
77.5°	291.6	297.2	320.6	413.4	551.6	521.3	1064.6	4177.1	5065.0	5547.8	3560.5
80°	231.6	237.9	251.8	280.2	413.4	371.7	508.0	2116.6	2446.7	2441.6	1421.2
82.5°	179.9	181.7	198.2	205.7	282.7	263.8	275.1	896.1	992.7	1025.5	513.1
85°	113.6	119.3	175.4	157.8	169.1	154.6	135.7	355.9	438.6	432.3	205.1
87.5°	34.7	36.6	59.3	66.9	75.1	67.5	49.9	104.8	128.1	138.8	51.1
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°	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2	1409.2
2.5°	1417.4	1410.5	1385.8	1365.6	1346.7	1325.9	1308.2	1303.2	1298.8	1296.9	1296.2
5°	1430.6	1409.8	1361.2	1321.5	1289.9	1260.9	1242.6	1234.4	1226.2	1226.2	1228.7
7.5°	1449.6	1411.7	1336.6	1277.3	1237.5	1210.4	1197.1	1195.9	1197.8	1199.7	1200.3
10°	1470.4	1410.5	1300.6	1226.8	1191.5	1178.8	1179.5	1190.2	1200.3	1207.9	1209.1
12.5°	1490.6	1402.9	1258.4	1179.5	1156.8	1159.3	1177.0	1200.9	1220.5	1231.2	1231.9
15°	1513.3	1390.9	1207.2	1134.7	1127.1	1146.7	1179.5	1216.1	1245.7	1263.4	1265.3
17.5°	1532.2	1370.7	1153.6	1091.1	1100.6	1136.6	1182.0	1229.3	1265.3	1287.4	1291.2
20°	1553.7	1344.8	1098.1	1049.5	1076.6	1125.2	1177.0	1228.1	1265.3	1286.8	1291.8
22.5°	1570.7	1308.2	1045.1	1015.4	1055.2	1111.3	1159.9	1200.9	1231.2	1242.6	1250.2
25°	1577.7	1262.1	995.2	987.6	1038.1	1088.6	1121.4	1144.8	1154.2	1153.0	1156.1
27.5°	1573.9	1209.1	952.3	965.5	1016.7	1053.3	1069.7	1067.8	1050.7	1035.0	1042.5
30°	1558.1	1146.0	916.3	942.8	988.9	1009.1	1006.6	982.0	949.8	920.1	922.0
32.5°	1529.7	1077.9	882.9	917.0	949.8	958.6	941.6	909.4	863.3	824.8	819.1
35°	1505.7	1012.9	853.2	887.3	910.6	906.2	889.8	848.2	806.5	772.4	766.8
37.5°	1502.0	957.3	824.8	853.8	867.1	860.8	840.6	805.3	790.1	764.2	761.1
40°	1522.2	918.2	795.8	818.5	824.8	819.8	797.7	777.5	791.4	785.1	785.1
42.5°	1577.1	897.4	769.9	783.2	788.2	792.0	776.2	759.2	776.2	747.2	737.7
45°	1664.1	898.0	746.6	748.5	763.6	776.9	766.1	740.9	732.0	674.0	662.6
47.5°	1792.3	919.5	727.6	715.6	742.8	764.9	749.7	713.1	674.0	635.5	628.6
50°	1941.8	958.0	710.6	681.6	715.0	749.7	738.4	695.4	655.1	631.7	627.3
52.5°	2107.8	1006.6	689.8	643.7	680.9	742.8	740.9	692.9	637.4	621.6	617.8
55°	2312.9	1054.5	663.9	599.5	650.6	737.1	733.9	672.1	633.6	622.2	621.0
57.5°	2551.4	1123.9	626.7	554.7	615.9	713.7	706.8	659.5	621.0	612.8	612.1
60°	2935.8	1231.9	573.6	513.7	580.6	672.7	681.6	638.0	600.8	598.9	598.3
62.5°	3441.2	1383.3	518.7	471.4	539.6	619.7	645.0	609.0	579.3	588.8	590.1
65°	4139.2	1510.8	461.9	435.4	494.1	568.6	610.2	581.9	555.3	573.6	573.6
67.5°	4594.2	1513.3	410.2	398.2	448.1	525.7	573.6	549.7	524.4	555.3	556.6
70°	4499.6	1325.9	367.3	359.1	403.3	479.6	533.3	514.3	485.3	513.1	503.0
71°	4346.8	1221.8	350.2	343.9	385.6	457.5	514.3	498.5	469.5	487.8	482.1
72.5°	4103.2	1060.8	322.5	323.7	359.1	429.8	487.8	471.4	442.4	452.5	450.6
75°	3468.4	926.4	275.8	281.5	308.6	382.4	434.8	422.2	392.5	392.5	390.6
77.5°	2168.4	647.5	229.1	232.2	261.9	327.5	373.6	362.9	334.5	325.0	322.5
80°	809.0	334.5	179.2	183.0	201.3	258.1	309.2	299.1	270.1	259.4	249.3
82.5°	306.1	167.9	131.9	128.7	148.3	196.9	242.3	230.3	207.6	181.7	174.2
85°	115.5	83.3	80.8	78.3	87.1	116.7	150.2	147.7	123.7	105.4	103.5
87.5°	30.3	27.1	31.6	23.3	24.6	22.1	22.7	9.5	4.4	1.9	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)