

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: P942634

Luminaire Tested: **GALN-SB6D-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41796 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

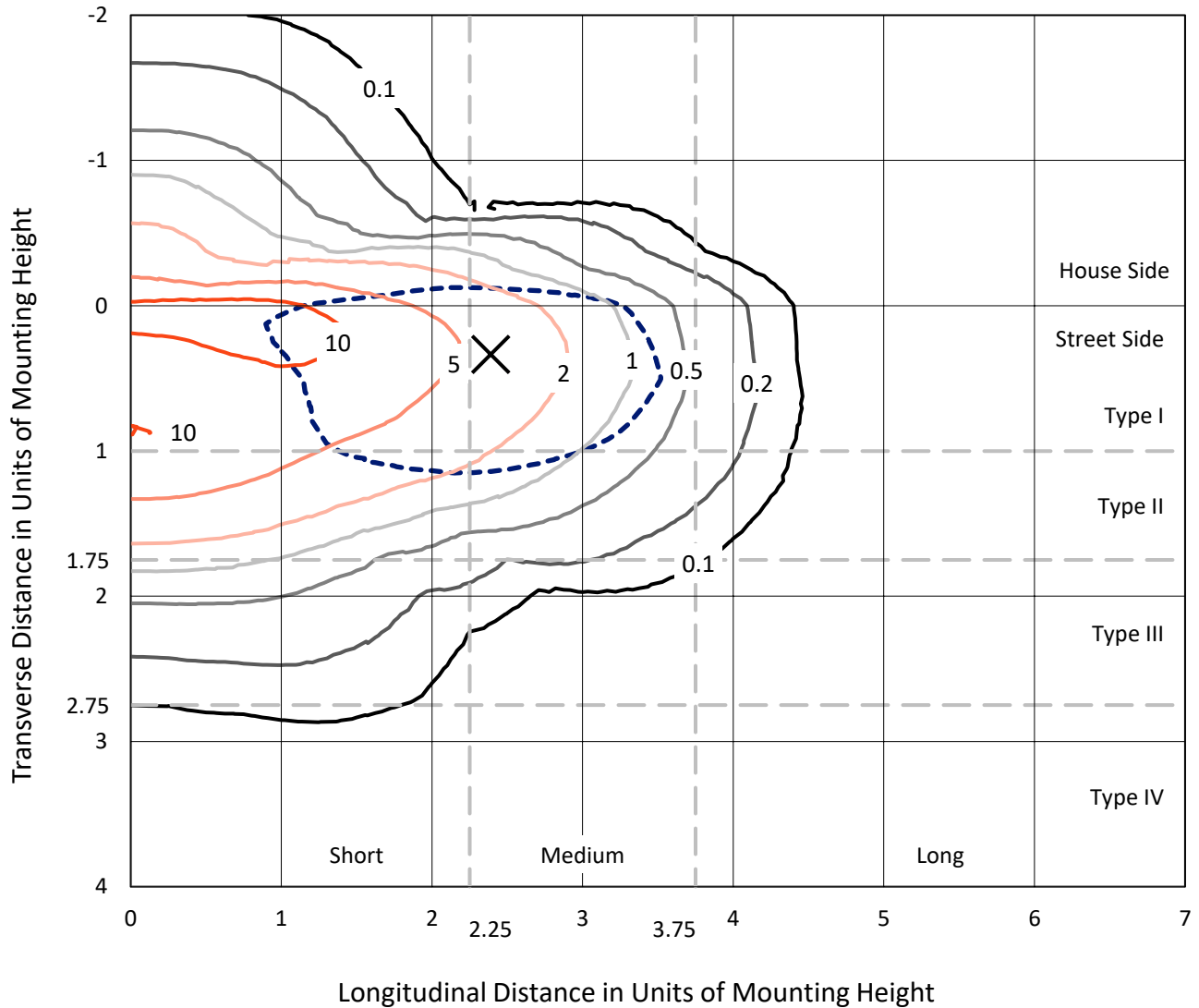
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

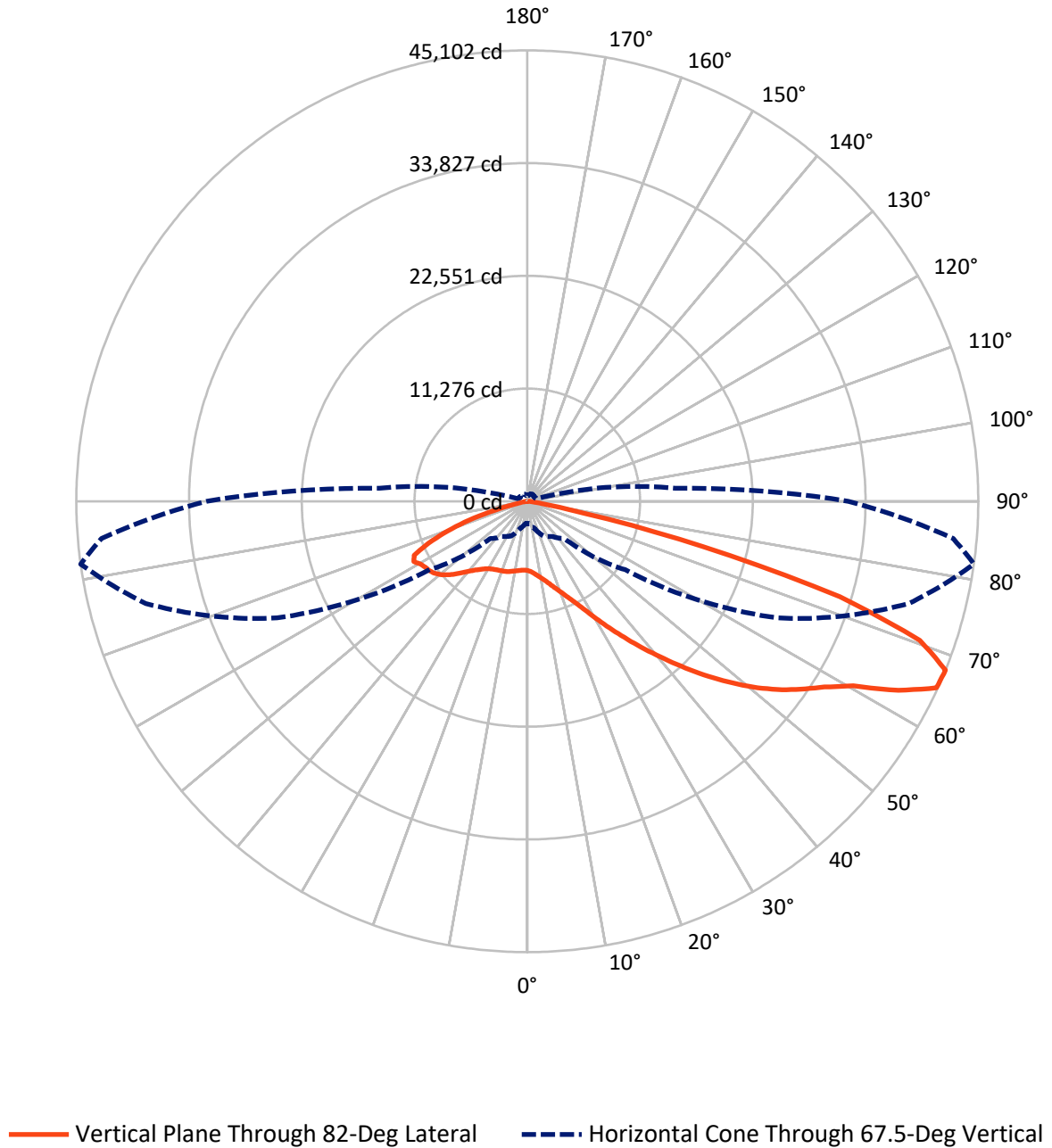
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7571.0	0.0	7571.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34225.0	0.0	34225.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	41796.0	0.0	41796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.9	1.5
10°-20°	1603.1	3.8
20°-30°	2567.6	6.1
30°-40°	4540.3	10.9
40°-50°	7955.0	19.0
50°-60°	10609.8	25.4
60°-70°	9877.1	23.6
70°-80°	3790.8	9.1
80°-90°	235.4	0.6
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°	41796.0	100.0
0°-180°	41796.0	100.0

Coefficient of Utilization



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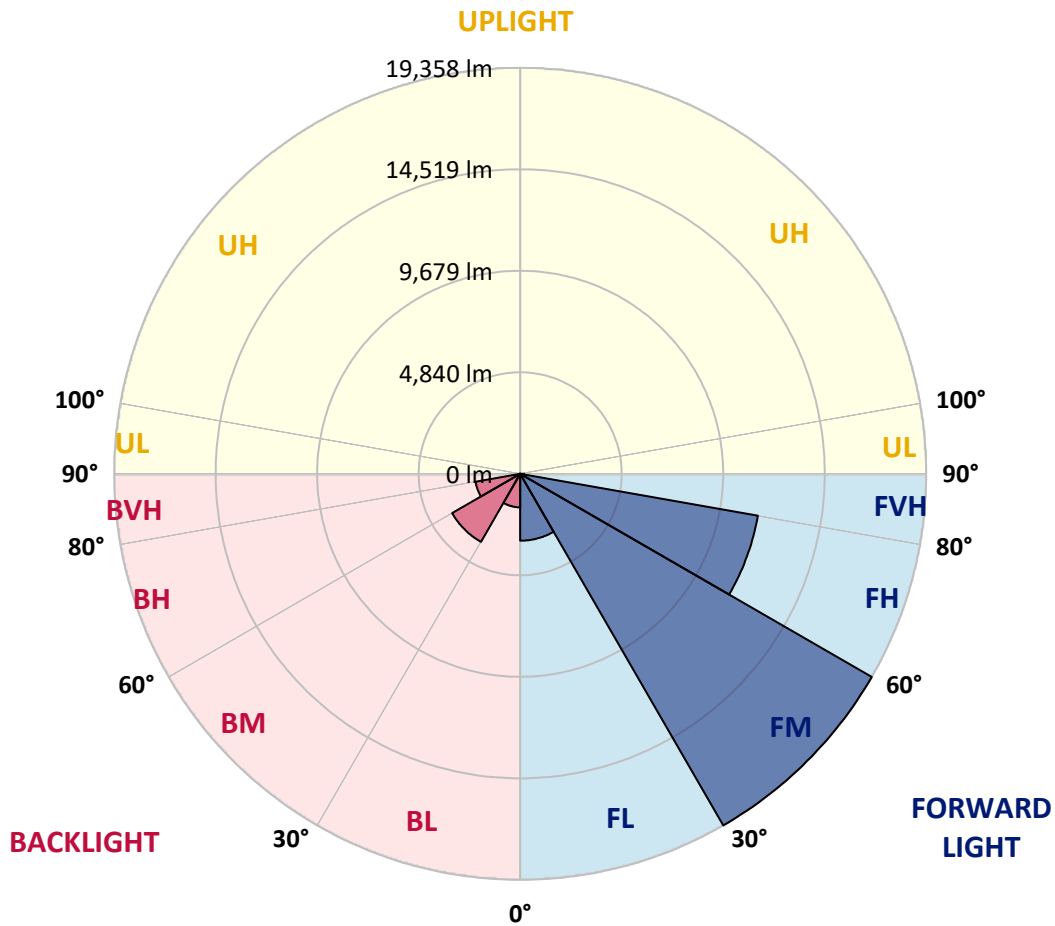
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3188.6	7.6			
FM (30°-60°)	19358.2	46.3			
FH (60°-80°)	11507.1	27.5			G4/12000
FVH (80°-90°)	171.2	0.4			G2/225
BL (0°-30°)	1599.0	3.8	B3/2500		
BM (30°-60°)	3746.8	9.0	B3/5000		
BH (60°-80°)	2160.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	64.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2
2.5°	7318.4	7360.5	7336.4	7324.4	7303.3	7273.3	7249.2	7173.9	7095.7	7044.6	7026.5
5°	7465.8	7508.0	7505.0	7517.0	7532.0	7541.1	7535.1	7450.8	7339.5	7252.2	7201.0
7.5°	7339.5	7387.6	7426.7	7486.9	7592.2	7703.6	7757.7	7739.7	7625.3	7505.0	7441.8
10°	6981.4	7032.5	7125.8	7267.2	7489.9	7730.6	7932.3	8025.6	7953.3	7820.9	7733.7
12.5°	6325.4	6376.5	6560.1	6867.0	7240.1	7658.4	8043.6	8293.4	8311.4	8179.0	8076.7
15°	5588.1	5639.3	5834.9	6220.0	6788.8	7459.8	8103.8	8576.2	8735.7	8621.4	8498.0
17.5°	5130.7	5175.8	5323.3	5633.2	6226.0	7062.6	8082.7	8877.2	9241.3	9151.0	9003.5
20°	4992.3	5031.4	5100.6	5317.3	5810.8	6650.3	7944.3	9160.0	9785.9	9734.8	9569.3
22.5°	5139.7	5175.8	5196.9	5293.2	5603.1	6379.5	7769.8	9448.9	10417.9	10423.9	10222.3
25°	5479.8	5515.9	5491.8	5552.0	5687.4	6295.3	7703.6	9788.9	11212.3	11278.5	11049.8
27.5°	6039.5	6042.5	5985.3	5982.3	6003.4	6421.6	7772.8	10153.1	12214.4	12337.7	12054.9
30°	7161.9	7116.8	6897.1	6659.4	6551.0	6800.8	7965.4	10583.4	13397.0	13616.7	13261.6
32.5°	8892.2	8826.0	8422.8	7854.0	7282.3	7411.7	8311.4	11073.9	14684.9	15082.1	14648.8
35°	10769.9	10751.9	10330.6	9485.0	8486.0	8281.3	8874.1	11717.8	16090.2	16722.2	16207.6
37.5°	12515.3	12506.3	12265.5	11269.5	10053.8	9494.0	9776.9	12560.4	17594.8	18509.6	17901.8
40°	14110.2	14137.2	13896.5	13005.8	11781.0	11049.8	11004.7	13601.6	19267.9	20456.6	19734.4
42.5°	15488.4	15518.5	15274.7	14615.7	13487.3	12771.1	12512.3	14877.5	20901.9	22548.0	21693.4
45°	16424.2	16610.8	16574.7	16048.1	15238.6	14495.3	14323.8	16478.4	22764.6	24765.8	23763.7
47.5°	16689.1	16860.6	17131.4	17203.6	16710.1	15978.9	16183.5	18407.3	24648.4	26986.6	25846.1
50°	16036.1	16195.5	16758.3	17507.6	17850.6	17624.9	17992.0	20474.6	26577.3	29201.3	27889.3
52.5°	14748.1	14910.6	15620.8	16806.4	18205.7	18915.9	19806.6	22511.9	28446.0	31298.8	29824.2
55°	12885.4	13056.9	13968.7	15310.8	17528.6	19448.5	21320.2	24546.1	30158.3	33185.5	31569.6
57.5°	10351.7	10478.1	11426.0	13303.7	15825.4	18918.9	22436.6	26766.9	31771.2	35039.2	33299.9
60°	6746.6	6858.0	7959.3	10053.8	13002.8	17149.5	22659.3	29243.5	33913.8	37449.6	35632.0
62.5°	4486.7	4562.0	5215.0	6752.7	9157.0	13752.1	21356.3	31220.5	37055.4	41644.4	39631.2
65°	3078.4	3153.6	3806.6	4877.9	5916.1	9096.8	17609.9	30958.7	39902.1	44975.6	42595.3
67.5°	2196.7	2259.9	2813.6	3824.7	4282.1	5284.2	11937.5	27612.5	39492.8	45102.0	42754.8
70°	1573.8	1609.9	2067.3	2979.1	3403.4	3174.7	6638.3	21118.6	34578.8	41647.4	39498.8
72.5°	1101.4	1113.4	1435.4	2268.9	2741.4	2317.1	3159.7	14080.1	26153.0	32689.0	30621.7
75°	746.3	761.3	966.0	1664.1	2199.7	1769.4	1673.1	7550.1	15353.0	18094.4	16219.6
77.5°	457.4	463.4	622.9	1137.5	1646.0	1348.1	1077.3	3198.8	5940.2	5831.8	4971.2
80°	258.8	258.8	397.2	707.2	1122.4	869.7	755.3	1360.2	1880.8	1652.1	1456.5
82.5°	144.4	147.5	288.9	439.3	743.3	514.6	415.3	628.9	812.5	719.2	625.9
85°	60.2	66.2	177.5	207.6	355.1	255.8	168.5	264.8	300.9	267.8	195.6
87.5°	6.0	9.0	54.2	39.1	42.1	51.2	24.1	51.2	42.1	42.1	30.1
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°	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2	6924.2
2.5°	6969.3	6924.2	6809.8	6677.4	6502.9	6418.6	6304.3	6226.0	6159.8	6165.9	6105.7
5°	7104.7	6990.4	6734.6	6415.6	6018.4	5735.5	5434.6	5227.0	5058.5	5022.4	4941.1
7.5°	7291.3	7110.8	6662.4	6087.6	5416.6	4908.0	4453.6	4161.7	3954.1	3887.9	3821.7
10°	7532.0	7270.2	6569.1	5675.4	4709.4	4062.4	3574.9	3346.2	3204.8	3156.7	3120.5
12.5°	7811.9	7453.8	6445.7	5172.8	3981.2	3358.3	3048.3	2934.0	2888.8	2873.8	2864.8
15°	8164.0	7682.5	6259.1	4577.0	3364.3	2928.0	2795.6	2780.5	2786.5	2780.5	2777.5
17.5°	8582.3	7932.3	5955.2	3963.1	2949.0	2708.3	2660.1	2672.2	2687.2	2684.2	2678.2
20°	9039.7	8179.0	5567.0	3418.5	2666.2	2551.8	2524.7	2536.8	2548.8	2542.8	2539.8
22.5°	9560.2	8443.8	5136.7	2994.2	2476.6	2407.4	2377.3	2380.3	2380.3	2368.2	2362.2
25°	10183.2	8735.7	4685.3	2693.2	2332.1	2278.0	2241.9	2229.8	2211.8	2175.7	2169.6
27.5°	10926.4	9045.7	4252.0	2482.6	2217.8	2166.6	2124.5	2094.4	2049.3	1989.1	1983.1
30°	11763.0	9421.8	3884.9	2350.2	2127.5	2076.4	2028.2	1983.1	1916.9	1841.6	1835.6
32.5°	12747.0	9825.1	3617.1	2262.9	2046.3	1992.1	1934.9	1880.8	1808.5	1733.3	1736.3
35°	13920.6	10312.5	3460.6	2202.7	1983.1	1910.8	1847.7	1787.5	1733.3	1667.1	1661.1
37.5°	15193.5	10830.1	3412.4	2172.6	1940.9	1829.6	1757.4	1715.2	1709.2	1670.1	1667.1
40°	16586.7	11444.0	3448.5	2154.6	1895.8	1751.4	1673.1	1664.1	1679.1	1609.9	1612.9
42.5°	18061.3	12172.2	3508.7	2133.5	1832.6	1673.1	1597.9	1597.9	1585.9	1489.6	1489.6
45°	19656.1	13011.8	3568.9	2082.4	1757.4	1594.9	1537.7	1516.6	1465.5	1372.2	1369.2
47.5°	21263.0	13866.4	3614.1	1989.1	1667.1	1528.7	1477.5	1429.4	1354.1	1269.9	1266.9
50°	22788.7	14633.8	3565.9	1850.7	1564.8	1465.5	1411.3	1345.1	1263.9	1206.7	1197.7
52.5°	24151.9	15298.8	3361.3	1688.2	1456.5	1399.3	1351.1	1281.9	1215.7	1155.5	1149.5
55°	25337.5	15837.5	3000.2	1534.7	1360.2	1342.1	1294.0	1206.7	1116.4	1065.3	1059.2
57.5°	26475.0	16246.7	2548.8	1408.3	1272.9	1278.9	1206.7	1128.5	1044.2	990.0	984.0
60°	27988.6	16794.4	2091.4	1290.9	1179.6	1197.7	1119.4	1062.2	956.9	887.7	878.7
62.5°	30408.0	17646.0	1661.1	1146.5	1071.3	1077.3	1044.2	975.0	848.6	767.3	761.3
65°	32327.9	17333.0	1309.0	990.0	947.9	956.9	956.9	881.7	746.3	653.0	644.0
67.5°	32111.2	14841.4	1044.2	836.6	830.5	836.6	857.6	794.4	662.0	586.8	574.8
70°	29580.5	11805.1	836.6	695.1	722.2	707.2	767.3	725.2	595.8	520.6	511.6
72.5°	24136.8	8504.0	638.0	574.8	553.7	577.8	692.1	653.0	496.5	412.3	403.2
75°	14104.1	4537.9	475.5	454.4	400.2	481.5	613.9	556.7	379.2	303.9	294.9
77.5°	4592.0	1582.8	349.1	334.0	297.9	388.2	523.6	469.4	309.9	240.7	231.7
80°	1230.8	478.5	237.7	219.7	192.6	288.9	415.3	373.1	222.7	156.5	153.5
82.5°	493.5	201.6	138.4	123.4	105.3	198.6	328.0	300.9	165.5	99.3	99.3
85°	159.5	66.2	51.2	39.1	48.1	123.4	195.6	204.6	117.4	51.2	39.1
87.5°	21.1	9.0	9.0	12.0	9.0	21.1	60.2	57.2	33.1	6.0	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)