

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: P943475

Luminaire Tested: **GALN-SB8A-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-722-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29690 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

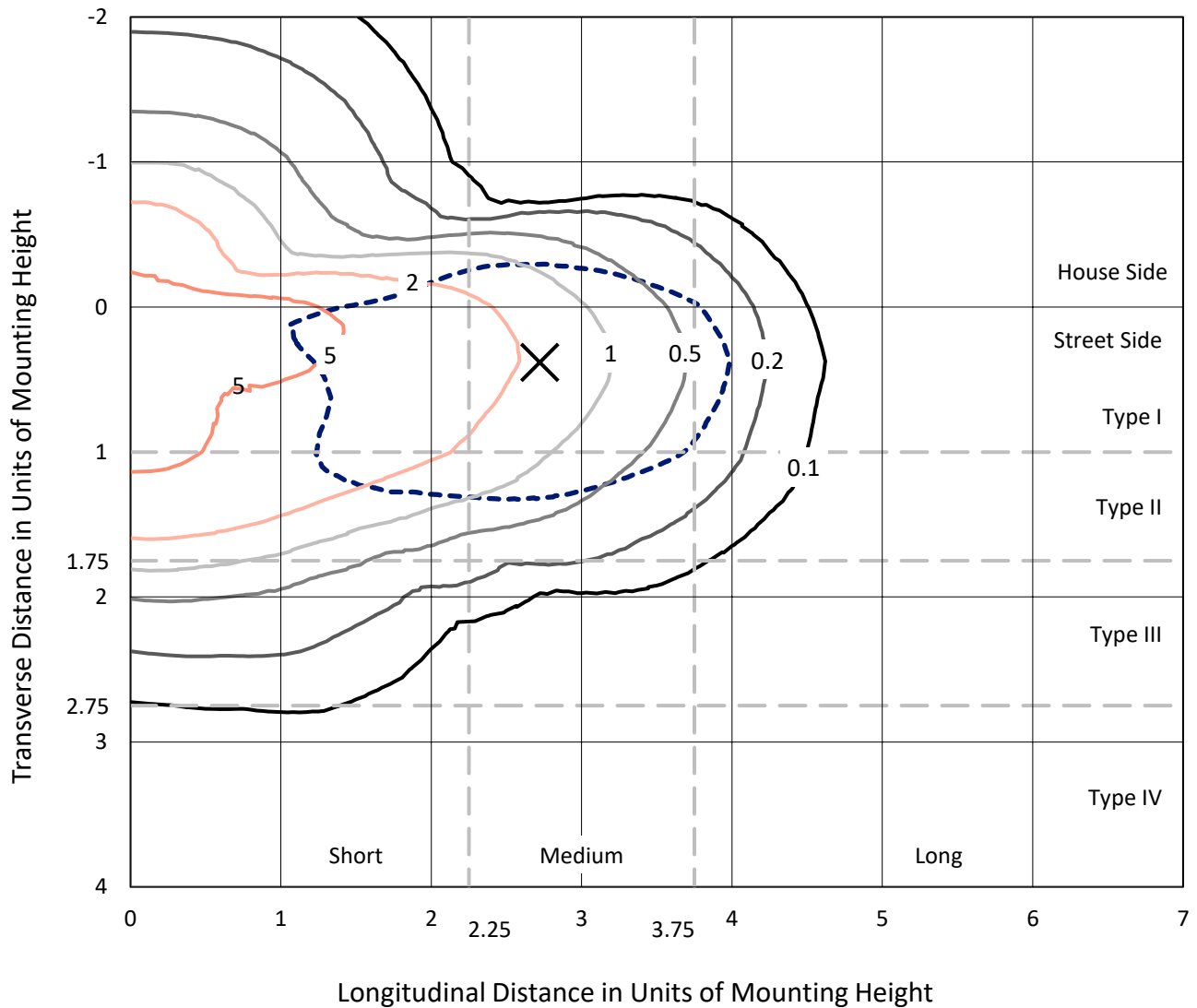
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

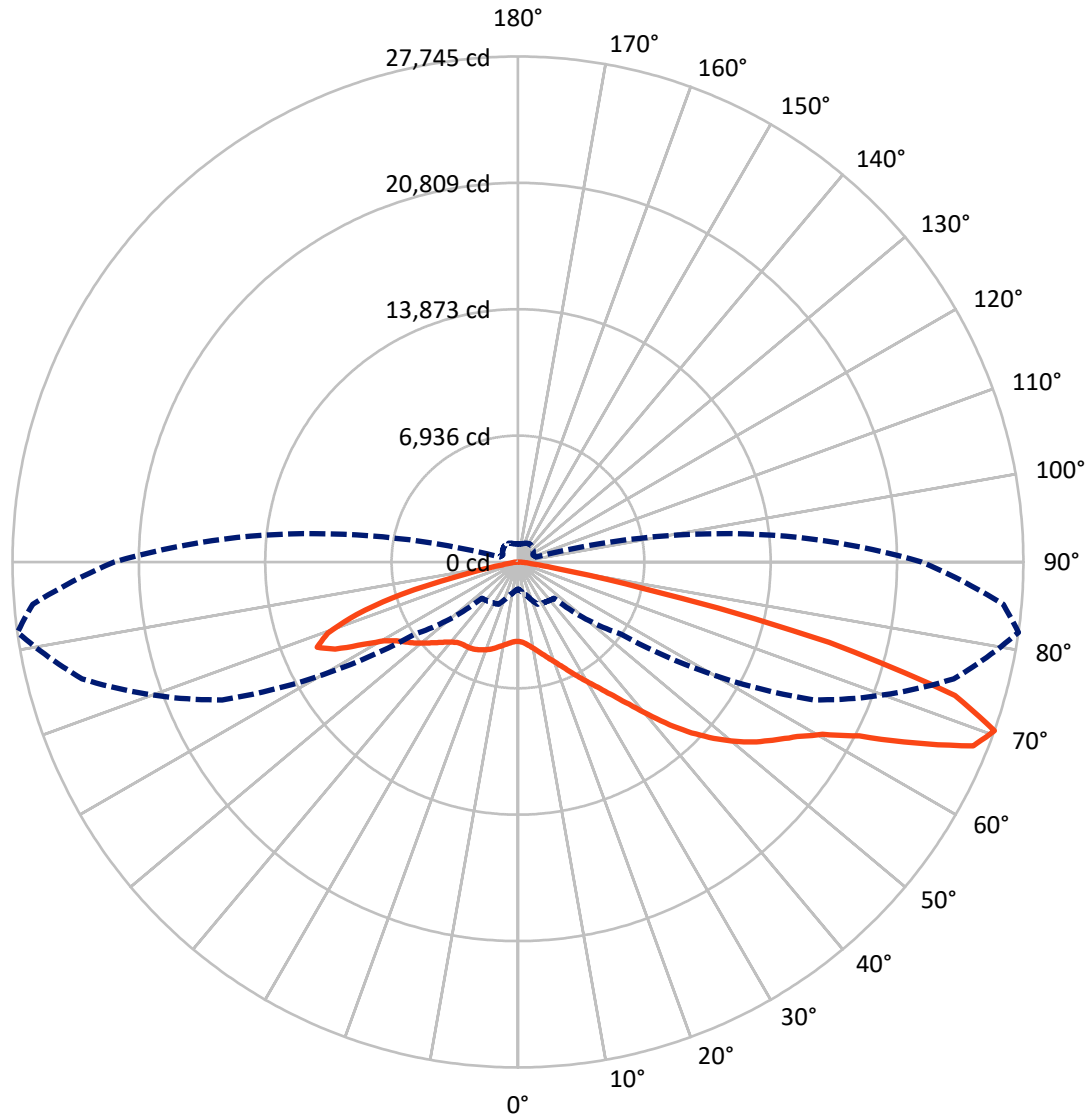
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7319.3	0.0	7319.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22370.7	0.0	22370.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	29690.0	0.0	29690.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.0	1.4
10°-20°	1180.8	4.0
20°-30°	1975.4	6.7
30°-40°	3086.0	10.4
40°-50°	4914.9	16.6
50°-60°	6839.7	23.0
60°-70°	7154.6	24.1
70°-80°	3739.4	12.6
80°-90°	388.3	1.3
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°	29690.0	100.0
0°-180°	29690.0	100.0



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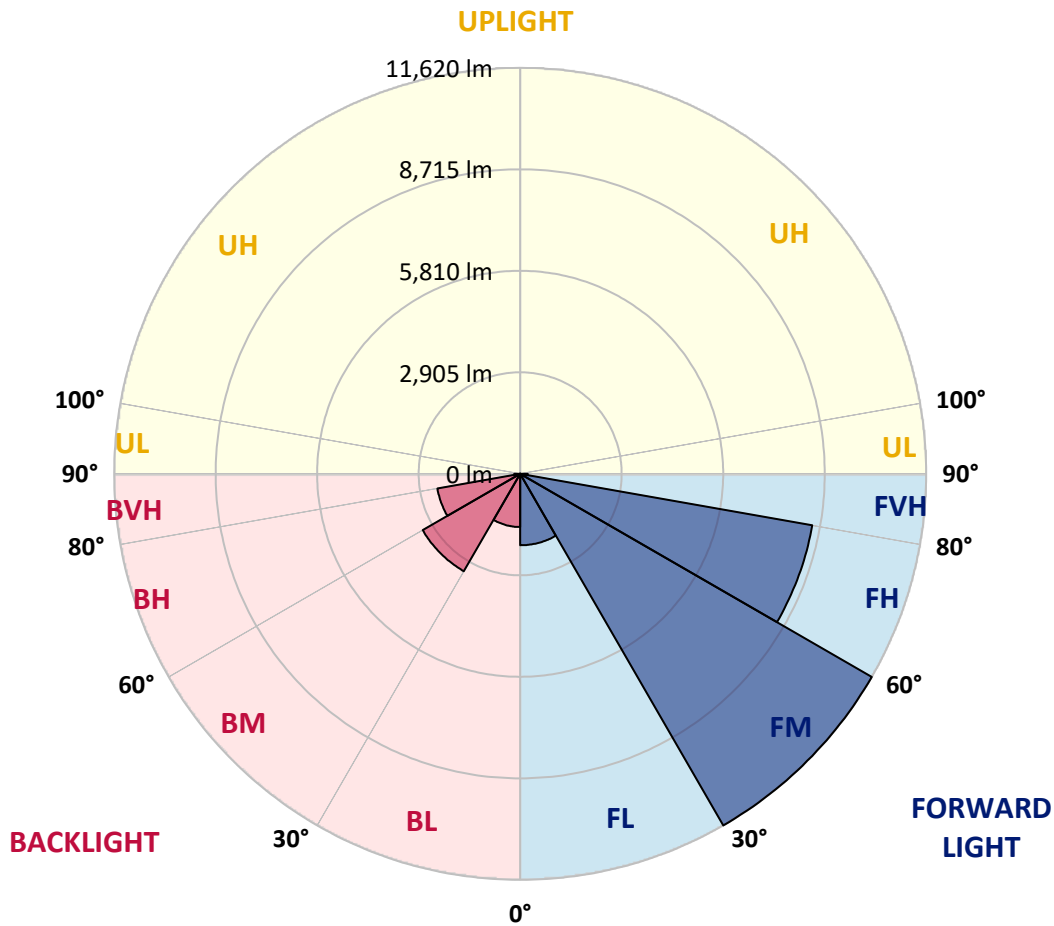
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2044.5	6.9			
FM (30°-60°)	11620.4	39.1			
FH (60°-80°)	8488.5	28.6			G4/12000
FVH (80°-90°)	217.4	0.7			G2/225
BL (0°-30°)	1522.7	5.1	B3/2500		
BM (30°-60°)	3220.2	10.8	B3/5000		
BH (60°-80°)	2405.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	170.9	0.6			G2/225
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°	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9
2.5°	4456.9	4482.1	4474.2	4466.4	4466.4	4455.3	4453.8	4438.0	4425.4	4404.9	4400.2
5°	4513.6	4540.4	4537.3	4543.6	4564.0	4568.8	4573.5	4564.0	4538.8	4513.6	4502.6
7.5°	4463.2	4493.1	4502.6	4540.4	4603.4	4660.1	4702.7	4720.0	4696.4	4660.1	4642.8
10°	4293.1	4326.1	4359.2	4449.0	4560.9	4694.8	4808.2	4876.0	4871.2	4836.6	4806.7
12.5°	3948.0	3982.7	4053.6	4228.5	4433.3	4669.6	4880.7	5022.5	5071.3	5046.1	4994.1
15°	3672.3	3702.3	3755.8	3935.4	4201.7	4560.9	4907.5	5183.2	5307.6	5293.5	5230.4
17.5°	3664.5	3677.1	3710.1	3795.2	4000.0	4390.7	4879.1	5340.7	5578.6	5577.0	5498.3
20°	3803.1	3807.8	3826.7	3844.1	3960.6	4261.6	4806.7	5471.5	5882.7	5882.7	5797.6
22.5°	3995.3	3992.2	4011.1	3995.3	4052.0	4250.5	4761.0	5586.5	6221.4	6246.6	6139.5
25°	4283.6	4267.9	4263.1	4226.9	4237.9	4352.9	4811.4	5717.3	6623.1	6675.1	6541.2
27.5°	4668.0	4642.8	4625.5	4542.0	4513.6	4564.0	4965.8	5874.8	7070.5	7160.3	6990.2
30°	5169.0	5123.3	5098.1	4953.2	4850.8	4858.6	5198.9	6084.3	7538.5	7683.4	7467.6
32.5°	5852.7	5781.8	5714.1	5476.2	5288.7	5227.3	5499.8	6374.2	8045.7	8277.3	8000.1
35°	6618.4	6561.7	6489.2	6122.1	5833.8	5692.0	5906.3	6779.1	8639.7	9006.8	8646.0
37.5°	7355.7	7306.9	7341.5	6846.8	6475.0	6268.7	6438.8	7322.6	9372.3	9914.2	9455.8
40°	8118.2	8080.4	8085.1	7612.5	7179.3	6947.7	7084.7	8004.8	10212.0	10993.4	10429.4
42.5°	8946.9	8918.5	8824.0	8404.9	7918.1	7702.3	7828.3	8792.5	11113.1	12222.2	11497.5
45°	9874.8	9857.5	9769.3	9288.8	8731.1	8488.4	8658.6	9662.1	12019.0	13378.6	12570.4
47.5°	10676.7	10690.9	10679.9	10275.0	9696.8	9340.8	9544.0	10569.6	12861.8	14465.6	13599.1
50°	11062.7	11136.7	11245.5	11119.4	10760.2	10397.9	10437.3	11445.5	13665.3	15484.9	14585.4
52.5°	10861.0	11001.3	11297.4	11499.1	11637.7	11562.1	11456.6	12315.2	14421.5	16405.0	15518.0
55°	10109.6	10306.5	10798.0	11284.8	11992.2	12542.0	12680.7	13279.3	15158.8	17214.8	16400.3
57.5°	8740.5	9060.3	9501.4	10486.1	11677.1	13016.2	14108.0	14616.9	15940.2	18079.7	17323.5
60°	6393.1	6821.6	7369.9	8835.0	10574.3	12762.6	15322.7	16671.2	17050.9	19199.8	18525.5
62.5°	4091.4	4356.1	4860.2	6240.3	8239.5	11462.9	15694.5	19239.2	18933.6	21036.8	20327.8
65°	2801.1	2971.3	3432.9	4208.0	5326.5	8532.6	14698.8	21164.4	21923.7	23948.2	23409.4
67.5°	2035.5	2164.6	2558.5	3237.5	3470.7	5049.3	11406.1	21076.2	24830.4	26947.8	26109.7
70°	1484.1	1575.4	1906.3	2558.5	2670.4	2809.0	6909.9	17915.8	24767.4	27745.0	26741.4
72.5°	1099.7	1162.7	1384.8	1985.0	2161.5	1896.8	3420.3	13021.0	21282.5	25095.1	24290.0
75°	795.6	842.9	1006.7	1518.7	1729.8	1444.7	1706.2	7609.3	14845.3	17652.7	17794.5
77.5°	608.1	644.4	751.5	1112.3	1384.8	1083.9	1058.7	3500.6	7039.0	7073.7	7470.7
80°	488.4	512.0	570.3	783.0	1061.8	811.3	690.0	1413.2	2224.5	1882.6	1975.6
82.5°	359.2	398.6	482.1	549.8	759.4	559.3	420.6	713.7	846.0	727.9	734.2
85°	204.8	231.6	291.5	393.9	485.2	341.9	241.0	316.7	393.9	323.0	288.3
87.5°	72.5	94.5	102.4	154.4	211.1	141.8	93.0	91.4	129.2	96.1	80.3
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°	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9	4352.9
2.5°	4384.4	4376.6	4345.0	4302.5	4258.4	4215.9	4201.7	4171.8	4151.3	4140.2	4152.8
5°	4472.7	4447.5	4373.4	4278.9	4179.6	4072.5	3996.9	3927.6	3877.1	3829.9	3848.8
7.5°	4598.7	4554.6	4427.0	4261.6	4085.1	3907.1	3774.7	3673.9	3606.2	3562.1	3571.5
10°	4745.2	4677.5	4482.1	4234.8	3962.2	3707.0	3551.0	3464.4	3421.8	3398.2	3404.5
12.5°	4913.8	4817.7	4538.8	4173.3	3774.7	3483.3	3376.2	3350.9	3352.5	3354.1	3357.3
15°	5121.7	4987.8	4584.5	4039.4	3530.5	3311.6	3292.7	3333.6	3376.2	3396.6	3395.1
17.5°	5356.5	5167.4	4592.4	3818.9	3291.1	3201.3	3261.1	3349.4	3414.0	3442.3	3448.6
20°	5608.5	5350.2	4535.7	3506.9	3094.2	3111.5	3218.6	3332.0	3402.9	3439.2	3448.6
22.5°	5896.9	5545.5	4400.2	3179.2	2933.5	3013.8	3139.8	3250.1	3324.2	3360.4	3369.9
25°	6226.1	5764.5	4187.5	2903.5	2794.8	2903.5	3029.6	3120.9	3180.8	3213.9	3223.3
27.5°	6591.6	5993.0	3903.9	2684.5	2673.5	2790.1	2894.1	2965.0	2996.5	3021.7	3031.1
30°	6958.7	6200.9	3560.5	2519.1	2568.0	2678.2	2752.3	2783.8	2793.2	2798.0	2809.0
32.5°	7355.7	6380.5	3199.7	2382.1	2467.1	2569.5	2613.6	2627.8	2583.7	2553.8	2563.2
35°	7836.2	6572.7	2846.8	2273.4	2367.9	2456.1	2470.3	2457.7	2405.7	2344.2	2347.4
37.5°	8430.1	6812.2	2564.8	2196.2	2274.9	2333.2	2315.9	2312.7	2317.5	2245.0	2249.7
40°	9158.0	7124.1	2358.4	2136.3	2199.3	2211.9	2163.1	2189.9	2213.5	2103.2	2106.4
42.5°	9966.2	7500.6	2227.7	2095.3	2136.3	2106.4	2030.7	2060.7	2057.5	1912.6	1911.0
45°	10790.2	7910.3	2182.0	2065.4	2078.0	2018.1	1934.6	1942.5	1876.3	1745.6	1750.3
47.5°	11609.4	8349.8	2210.3	2040.2	2005.5	1937.8	1873.2	1838.5	1740.9	1643.2	1643.2
50°	12412.8	8811.4	2314.3	1989.8	1906.3	1866.9	1819.6	1758.2	1654.2	1570.7	1564.4
52.5°	13158.0	9276.2	2430.9	1906.3	1781.8	1805.4	1775.5	1704.6	1602.2	1517.1	1518.7
55°	13863.8	9740.9	2476.6	1791.3	1665.2	1751.9	1734.6	1603.8	1480.9	1411.6	1405.3
57.5°	14632.6	10300.2	2426.2	1644.8	1570.7	1690.4	1624.3	1479.3	1408.4	1356.4	1351.7
60°	15697.6	11177.7	2317.5	1463.6	1480.9	1599.1	1485.6	1425.8	1348.6	1290.3	1287.1
62.5°	17466.8	12814.6	2142.6	1284.0	1375.4	1463.6	1419.5	1359.6	1280.8	1224.1	1224.1
65°	20082.1	15089.5	1813.3	1143.8	1257.2	1331.2	1348.6	1288.7	1206.8	1146.9	1150.1
67.5°	22287.7	16516.9	1372.2	1027.2	1135.9	1224.1	1273.0	1214.7	1128.0	1069.7	1071.3
70°	22166.4	15480.2	1047.7	912.2	1028.8	1118.6	1181.6	1135.9	1042.9	987.8	992.5
72.5°	19688.2	12950.1	847.6	795.6	920.1	1008.3	1083.9	1049.2	954.7	901.1	901.1
75°	14464.1	9192.7	677.4	677.4	784.6	893.3	976.8	954.7	868.1	830.3	819.2
77.5°	6096.9	3856.7	530.9	562.4	652.2	767.2	871.2	879.1	803.5	850.7	772.0
80°	1621.1	1063.4	404.9	442.7	512.0	633.3	757.8	754.6	672.7	628.6	584.5
82.5°	617.6	419.1	288.3	311.9	370.2	485.2	600.2	619.1	537.2	464.8	464.8
85°	237.9	179.6	178.0	187.5	215.8	321.4	453.7	469.5	404.9	343.4	354.5
87.5°	61.4	53.6	66.2	63.0	99.3	171.7	259.9	269.4	247.3	143.4	204.8
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)