

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: P944664

Luminaire Tested: **GALN-SB9D-722-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944664  
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-SB9D-722-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

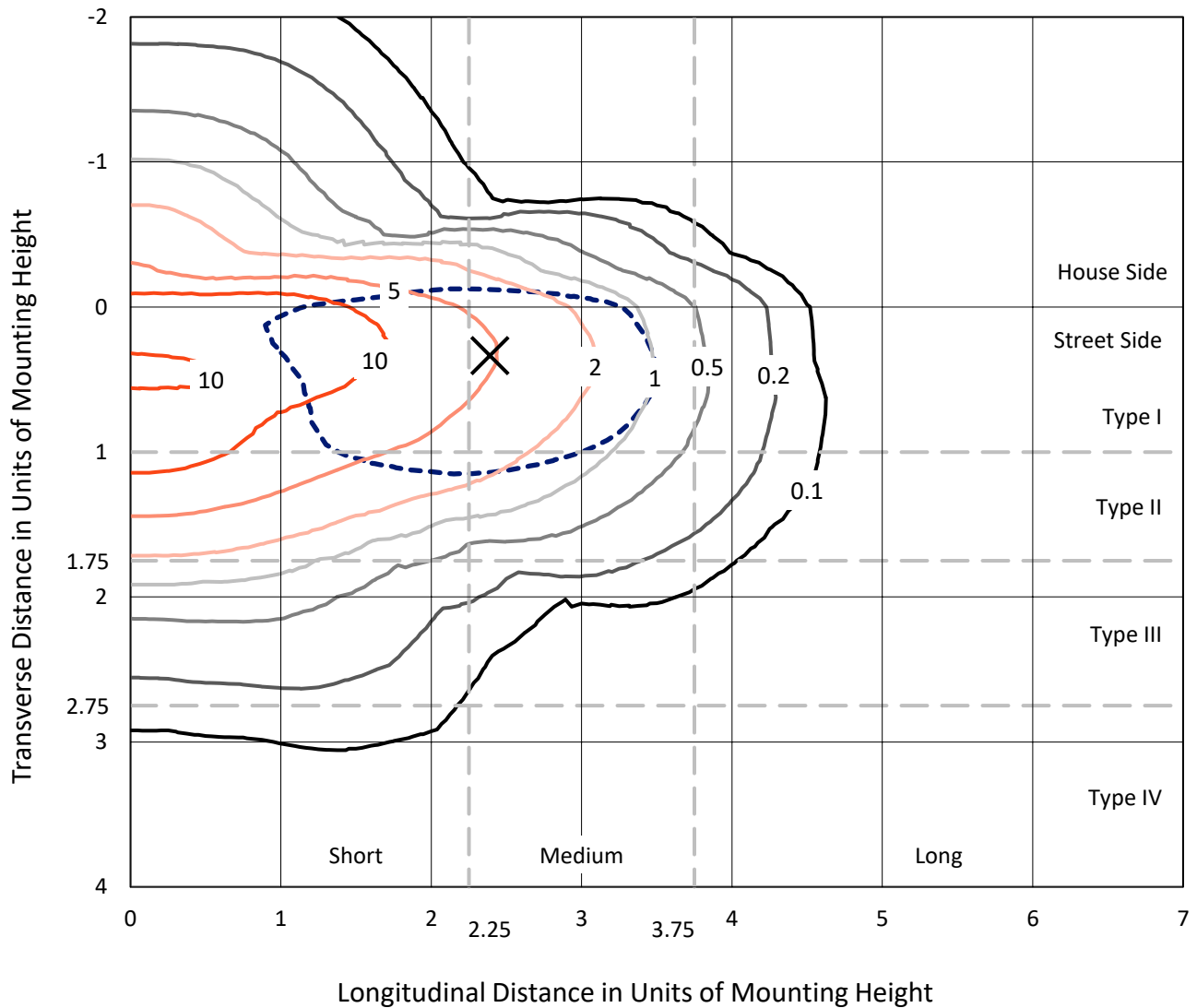
Lumens per Lamp: N/A  
Luminaire Lumens: 55912 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

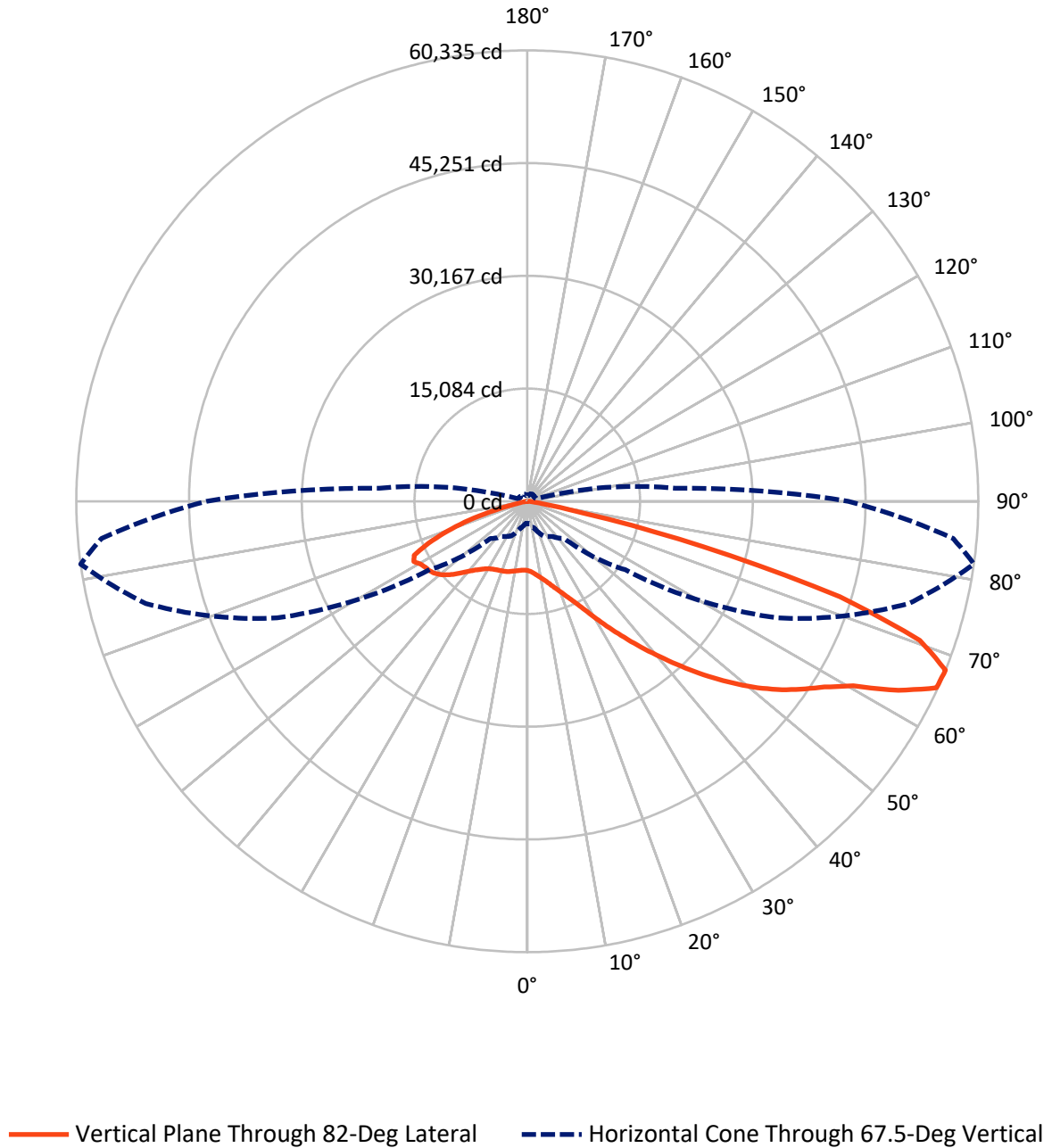
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10128.0	0.0	10128.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	45784.0	0.0	45784.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	55912.0	0.0	55912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.2	1.5
10°-20°	2144.5	3.8
20°-30°	3434.8	6.1
30°-40°	6073.7	10.9
40°-50°	10641.7	19.0
50°-60°	14193.0	25.4
60°-70°	13213.0	23.6
70°-80°	5071.1	9.1
80°-90°	315.0	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°	55912.0	100.0
0°-180°	55912.0	100.0

**Coefficient of Utilization**



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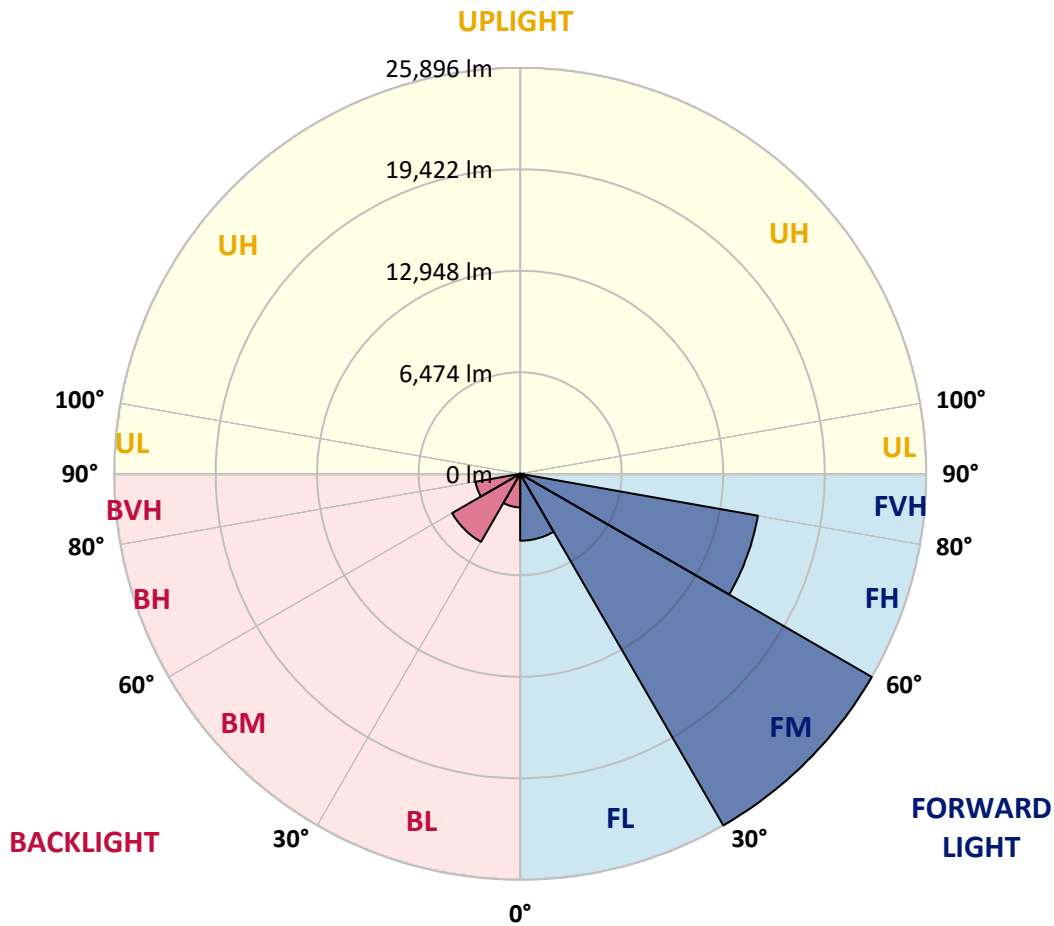
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4265.5	7.6			
FM (30°-60°)	25896.2	46.3			
FH (60°-80°)	15393.4	27.5			G5
FVH (80°-90°)	229.0	0.4			G3/500
BL (0°-30°)	2139.0	3.8	B3/2500		
BM (30°-60°)	5012.3	9.0	B4/8500		
BH (60°-80°)	2890.7	5.2	B4/5000		G4/5000
BVH (80°-90°)	86.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7
2.5°	9790.1	9846.4	9814.2	9798.1	9769.9	9729.7	9697.5	9596.8	9492.2	9423.7	9399.6
5°	9987.3	10043.7	10039.7	10055.8	10075.9	10088.0	10079.9	9967.2	9818.2	9701.5	9633.1
7.5°	9818.2	9882.7	9935.0	10015.5	10156.4	10305.3	10377.8	10353.6	10200.7	10039.7	9955.1
10°	9339.2	9407.6	9532.4	9721.6	10019.5	10341.6	10611.3	10736.1	10639.5	10462.3	10345.6
12.5°	8461.6	8530.1	8775.6	9186.2	9685.4	10245.0	10760.2	11094.3	11118.5	10941.4	10804.5
15°	7475.4	7543.8	7805.5	8320.8	9081.6	9979.3	10840.7	11472.7	11686.1	11533.1	11368.1
17.5°	6863.5	6923.9	7121.1	7535.8	8328.8	9447.9	10812.6	11875.3	12362.4	12241.6	12044.4
20°	6678.3	6730.7	6823.3	7113.1	7773.3	8896.4	10627.4	12253.7	13091.0	13022.6	12801.2
22.5°	6875.6	6923.9	6952.1	7080.9	7495.5	8534.1	10393.9	12640.1	13936.4	13944.4	13674.7
25°	7330.5	7378.8	7346.6	7427.1	7608.2	8421.4	10305.3	13095.0	14999.1	15087.7	14781.7
27.5°	8079.2	8083.2	8006.8	8002.7	8030.9	8590.5	10397.9	13582.1	16339.6	16504.6	16126.2
30°	9580.7	9520.4	9226.5	8908.5	8763.6	9097.7	10655.6	14157.8	17921.6	18215.5	17740.5
32.5°	11895.4	11806.9	11267.4	10506.6	9741.8	9914.9	11118.5	14813.9	19644.5	20175.9	19596.2
35°	14407.3	14383.2	13819.6	12688.4	11352.0	11078.2	11871.3	15675.4	21524.5	22369.8	21681.5
37.5°	16742.1	16730.1	16408.0	15075.6	13449.3	12700.5	13078.9	16802.5	23537.2	24761.0	23947.8
40°	18875.7	18911.9	18589.9	17398.3	15759.9	14781.7	14721.3	18195.4	25775.4	27365.5	26399.4
42.5°	20719.4	20759.6	20433.5	19552.0	18042.4	17084.3	16738.1	19902.2	27961.3	30163.2	29020.0
45°	21971.3	22220.9	22172.6	21468.1	20385.2	19390.9	19161.5	22043.8	30453.1	33130.0	31789.5
47.5°	22325.5	22555.0	22917.3	23013.9	22353.7	21375.5	21649.3	24624.1	32973.1	36100.9	34575.2
50°	21452.0	21665.4	22418.1	23420.5	23879.4	23577.5	24068.6	27389.7	35553.4	39063.7	37308.5
52.5°	19729.1	19946.5	20896.5	22482.5	24354.4	25304.4	26496.0	30114.9	38053.3	41869.5	39896.9
55°	17237.3	17466.7	18686.5	20481.9	23448.7	26016.9	28520.8	32836.2	40343.8	44393.5	42231.8
57.5°	13847.8	14016.9	15284.9	17796.8	21170.2	25308.5	30014.3	35807.0	42501.5	46873.2	44546.4
60°	9025.2	9174.2	10647.5	13449.3	17394.3	22941.5	30312.2	39120.0	45367.6	50097.6	47666.2
62.5°	6002.1	6102.7	6976.2	9033.3	12249.7	18396.6	28569.1	41764.8	49570.3	55709.2	53016.1
65°	4118.1	4218.7	5092.3	6525.4	7914.2	12169.2	23557.4	41414.6	53378.4	60165.5	56981.3
67.5°	2938.6	3023.2	3763.9	5116.4	5728.3	7068.8	15969.2	36938.2	52831.0	60334.5	57194.6
70°	2105.3	2153.7	2765.5	3985.3	4552.9	4246.9	8880.3	28251.1	46257.3	55713.2	52839.0
72.5°	1473.3	1489.4	1920.2	3035.2	3667.3	3099.7	4226.8	18835.4	34985.8	43729.2	40963.7
75°	998.3	1018.5	1292.2	2226.1	2942.7	2367.0	2238.2	10100.0	20538.2	24205.5	21697.6
77.5°	611.9	619.9	833.3	1521.6	2202.0	1803.4	1441.1	4279.1	7946.4	7801.5	6650.2
80°	346.2	346.2	531.4	946.0	1501.5	1163.4	1010.4	1819.5	2516.0	2210.0	1948.4
82.5°	193.2	197.3	386.5	587.7	994.3	688.4	555.5	841.3	1086.9	962.1	837.3
85°	80.5	88.6	237.5	277.8	475.0	342.2	225.4	354.2	402.6	358.3	261.7
87.5°	8.1	12.1	72.5	52.3	56.4	68.4	32.2	68.4	56.4	56.4	40.3
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°	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7	9262.7
2.5°	9323.1	9262.7	9109.8	8932.6	8699.2	8586.4	8433.5	8328.8	8240.2	8248.3	8167.8
5°	9504.3	9351.3	9009.1	8582.4	8051.0	7672.6	7270.1	6992.3	6766.9	6718.6	6609.9
7.5°	9753.8	9512.3	8912.5	8143.6	7245.9	6565.6	5957.8	5567.3	5289.5	5201.0	5112.4
10°	10075.9	9725.7	8787.7	7592.1	6299.9	5434.5	4782.3	4476.4	4287.2	4222.8	4174.5
12.5°	10450.3	9971.2	8622.7	6919.9	5325.8	4492.5	4077.9	3924.9	3864.5	3844.4	3832.3
15°	10921.2	10277.2	8373.1	6122.8	4500.5	3916.8	3739.7	3719.6	3727.6	3719.6	3715.6
17.5°	11480.8	10611.3	7966.5	5301.6	3945.0	3623.0	3558.6	3574.7	3594.8	3590.8	3582.7
20°	12092.7	10941.4	7447.2	4573.0	3566.6	3413.6	3377.4	3393.5	3409.6	3401.6	3397.5
22.5°	12789.1	11295.6	6871.6	4005.4	3313.0	3220.4	3180.2	3184.2	3184.2	3168.1	3160.0
25°	13622.4	11686.1	6267.7	3602.8	3119.8	3047.3	2999.0	2982.9	2958.8	2910.5	2902.4
27.5°	14616.7	12100.7	5688.1	3321.1	2966.8	2898.4	2842.0	2801.8	2741.4	2660.9	2652.8
30°	15735.8	12603.9	5196.9	3143.9	2846.0	2777.6	2713.2	2652.8	2564.3	2463.6	2455.6
32.5°	17052.1	13143.3	4838.7	3027.2	2737.4	2664.9	2588.4	2516.0	2419.3	2318.7	2322.7
35°	18622.1	13795.5	4629.4	2946.7	2652.8	2556.2	2471.7	2391.2	2318.7	2230.1	2222.1
37.5°	20324.9	14487.9	4564.9	2906.4	2596.5	2447.5	2350.9	2294.5	2286.5	2234.2	2230.1
40°	22188.7	15309.1	4613.2	2882.3	2536.1	2342.9	2238.2	2226.1	2246.2	2153.7	2157.7
42.5°	24161.2	16283.2	4693.8	2854.1	2451.5	2238.2	2137.6	2137.6	2121.5	1992.6	1992.6
45°	26294.7	17406.4	4774.3	2785.7	2350.9	2133.5	2057.0	2028.9	1960.4	1835.6	1831.6
47.5°	28444.3	18549.6	4834.7	2660.9	2230.1	2045.0	1976.5	1912.1	1811.5	1698.8	1694.7
50°	30485.3	19576.1	4770.2	2475.7	2093.3	1960.4	1888.0	1799.4	1690.7	1614.2	1602.2
52.5°	32308.8	20465.8	4496.5	2258.3	1948.4	1871.9	1807.5	1714.9	1626.3	1545.8	1537.7
55°	33894.9	21186.3	4013.4	2053.0	1819.5	1795.4	1731.0	1614.2	1493.5	1425.0	1417.0
57.5°	35416.5	21733.8	3409.6	1883.9	1702.8	1710.8	1614.2	1509.6	1396.9	1324.4	1316.3
60°	37441.4	22466.4	2797.7	1726.9	1578.0	1602.2	1497.5	1421.0	1280.1	1187.5	1175.5
62.5°	40677.9	23605.7	2222.1	1533.7	1433.1	1441.1	1396.9	1304.3	1135.2	1026.5	1018.5
65°	43246.2	23187.0	1751.1	1324.4	1268.0	1280.1	1280.1	1179.5	998.3	873.5	861.5
67.5°	42956.3	19853.9	1396.9	1119.1	1111.0	1119.1	1147.3	1062.7	885.6	785.0	768.9
70°	39570.9	15792.1	1119.1	929.9	966.1	946.0	1026.5	970.2	797.1	696.4	684.3
72.5°	32288.7	11376.1	853.4	768.9	740.7	772.9	925.9	873.5	664.2	551.5	539.4
75°	18867.6	6070.5	636.0	607.9	535.4	644.1	821.2	744.7	507.2	406.6	394.5
77.5°	6142.9	2117.4	467.0	446.8	398.5	519.3	700.4	628.0	414.6	322.0	310.0
80°	1646.4	640.1	318.0	293.9	257.6	386.5	555.5	499.2	297.9	209.3	205.3
82.5°	660.2	269.7	185.2	165.0	140.9	265.7	438.8	402.6	221.4	132.8	132.8
85°	213.4	88.6	68.4	52.3	64.4	165.0	261.7	273.7	157.0	68.4	52.3
87.5°	28.2	12.1	12.1	16.1	12.1	28.2	80.5	76.5	44.3	8.1	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)