

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: P943654

Luminaire Tested: **GALN-SB8B-727-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943654  
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-SB8B-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

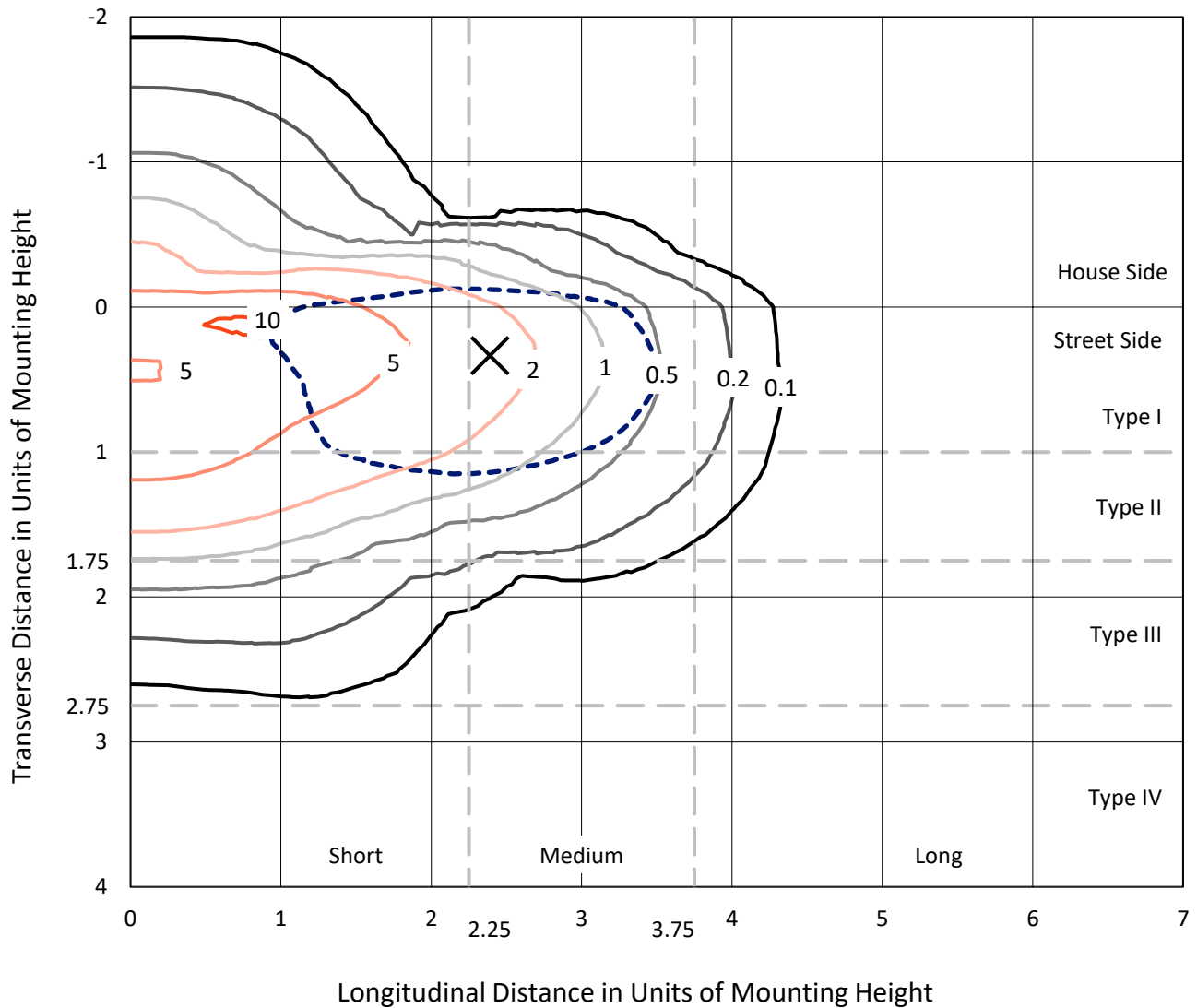
Lumens per Lamp: N/A  
Luminaire Lumens: 30840 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

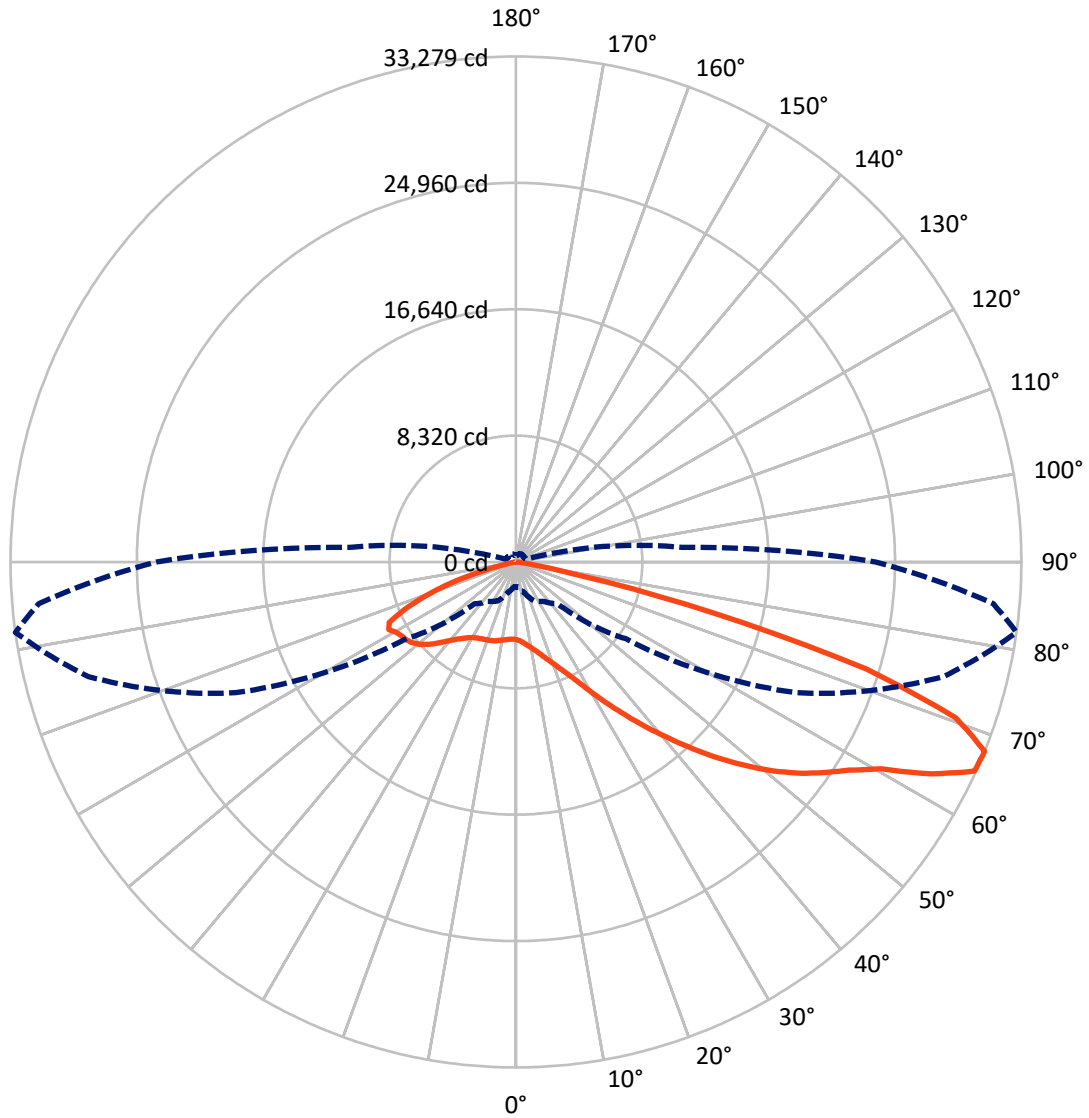
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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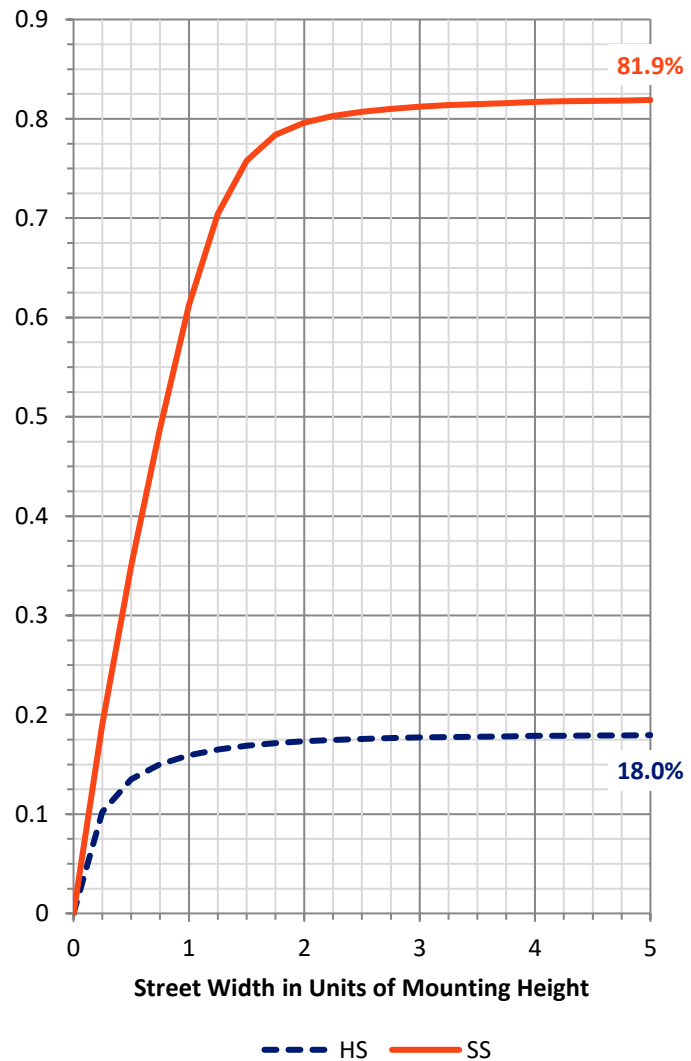
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5586.4	0.0	5586.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	25253.6	0.0	25253.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	30840.0	0.0	30840.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.2	1.5
10°-20°	1182.8	3.8
20°-30°	1894.5	6.1
30°-40°	3350.1	10.9
40°-50°	5869.8	19.0
50°-60°	7828.6	25.4
60°-70°	7288.0	23.6
70°-80°	2797.1	9.1
80°-90°	173.7	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°	30840.0	100.0
0°-180°	30840.0	100.0

**Coefficient of Utilization**



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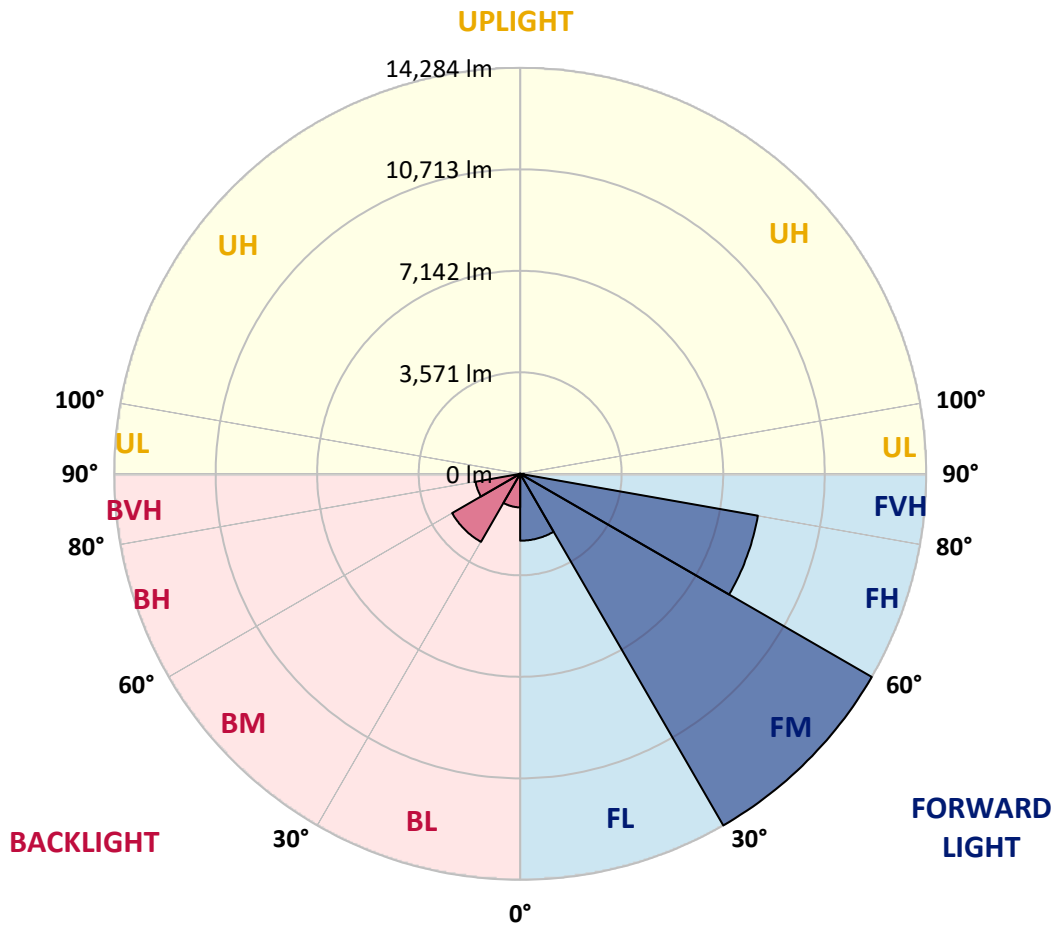
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2352.7	7.6			
FM (30°-60°)	14283.8	46.3			
FH (60°-80°)	8490.7	27.5			G4/12000
FVH (80°-90°)	126.3	0.4			G2/225
BL (0°-30°)	1179.8	3.8	B3/2500		
BM (30°-60°)	2764.7	9.0	B3/5000		
BH (60°-80°)	1594.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	47.4	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°	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1
2.5°	5400.0	5431.1	5413.3	5404.5	5388.9	5366.7	5348.9	5293.4	5235.7	5198.0	5184.6
5°	5508.8	5539.9	5537.7	5546.6	5557.7	5564.3	5559.9	5497.7	5415.6	5351.2	5313.4
7.5°	5415.6	5451.1	5480.0	5524.4	5602.1	5684.2	5724.2	5710.9	5626.5	5537.7	5491.1
10°	5151.3	5189.1	5257.9	5362.3	5526.6	5704.2	5853.0	5921.8	5868.5	5770.8	5706.4
12.5°	4667.3	4705.0	4840.5	5067.0	5342.3	5650.9	5935.1	6119.4	6132.7	6035.1	5959.6
15°	4123.3	4161.0	4305.4	4589.6	5009.2	5504.4	5979.5	6328.1	6445.8	6361.5	6270.4
17.5°	3785.8	3819.1	3927.9	4156.6	4594.0	5211.3	5964.0	6550.2	6818.9	6752.2	6643.4
20°	3683.6	3712.5	3763.6	3923.4	4287.6	4907.1	5861.9	6758.9	7220.7	7183.0	7060.9
22.5°	3792.4	3819.1	3834.6	3905.7	4134.4	4707.3	5733.1	6972.1	7687.0	7691.5	7542.7
25°	4043.4	4070.0	4052.2	4096.6	4196.6	4645.1	5684.2	7223.0	8273.2	8322.1	8153.3
27.5°	4456.3	4458.6	4416.4	4414.2	4429.7	4738.3	5735.3	7491.6	9012.6	9103.6	8894.9
30°	5284.6	5251.3	5089.2	4913.7	4833.8	5018.1	5877.4	7809.2	9885.2	10047.3	9785.3
32.5°	6561.3	6512.4	6214.9	5795.2	5373.4	5468.8	6132.7	8171.1	10835.6	11128.7	10808.9
35°	7946.8	7933.5	7622.6	6998.7	6261.5	6110.5	6548.0	8646.2	11872.5	12338.8	11959.1
37.5°	9234.7	9228.0	9050.4	8315.4	7418.4	7005.4	7214.1	9268.0	12982.7	13657.7	13209.2
40°	10411.5	10431.4	10253.8	9596.6	8692.9	8153.3	8120.0	10036.2	14217.2	15094.3	14561.4
42.5°	11428.4	11450.6	11270.8	10784.5	9951.8	9423.4	9232.4	10977.7	15422.9	16637.5	16006.9
45°	12119.0	12256.6	12230.0	11841.4	11244.1	10695.7	10569.1	12158.9	16797.3	18273.9	17534.5
47.5°	12314.3	12440.9	12640.7	12694.0	12329.9	11790.3	11941.3	13582.2	18187.3	19912.6	19071.0
50°	11832.5	11950.2	12365.4	12918.3	13171.4	13004.9	13275.8	15107.6	19610.6	21546.8	20578.7
52.5°	10882.2	11002.1	11526.1	12400.9	13433.4	13957.4	14614.7	16610.8	20989.5	23094.4	22006.4
55°	9507.8	9634.3	10307.1	11297.4	12933.8	14350.5	15731.5	18111.8	22252.9	24486.6	23294.2
57.5°	7638.2	7731.4	8430.9	9816.4	11677.1	13959.7	16555.3	19750.5	23443.0	25854.4	24571.0
60°	4978.1	5060.3	5873.0	7418.4	9594.4	12654.1	16719.6	21577.9	25023.9	27632.9	26291.8
62.5°	3310.6	3366.1	3848.0	4982.6	6756.7	10147.2	15758.2	23036.7	27342.0	30728.1	29242.7
65°	2271.5	2327.0	2808.8	3599.3	4365.3	6712.3	12993.8	22843.5	29442.5	33186.1	31429.8
67.5°	1620.9	1667.5	2076.1	2822.1	3159.6	3899.0	8808.3	20374.4	29140.6	33279.4	31547.5
70°	1161.3	1187.9	1525.4	2198.2	2511.3	2342.5	4898.2	15582.8	25514.6	30730.4	29145.0
72.5°	812.7	821.5	1059.1	1674.2	2022.8	1709.7	2331.4	10389.3	19297.5	24120.2	22594.8
75°	550.7	561.8	712.7	1227.9	1623.1	1305.6	1234.5	5571.0	11328.5	13351.3	11968.0
77.5°	337.5	341.9	459.6	839.3	1214.6	994.7	794.9	2360.3	4383.1	4303.1	3668.1
80°	191.0	191.0	293.1	521.8	828.2	641.7	557.3	1003.6	1387.8	1219.0	1074.7
82.5°	106.6	108.8	213.2	324.2	548.4	379.7	306.4	464.1	599.5	530.7	461.8
85°	44.4	48.8	131.0	153.2	262.0	188.7	124.3	195.4	222.0	197.6	144.3
87.5°	4.4	6.7	40.0	28.9	31.1	37.7	17.8	37.7	31.1	31.1	22.2
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°	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1	5109.1
2.5°	5142.5	5109.1	5024.8	4927.1	4798.3	4736.1	4651.7	4594.0	4545.2	4549.6	4505.2
5°	5242.4	5158.0	4969.3	4733.9	4440.8	4232.1	4010.0	3856.8	3732.5	3705.9	3645.9
7.5°	5380.0	5246.8	4916.0	4491.9	3996.7	3621.5	3286.2	3070.8	2917.6	2868.8	2819.9
10°	5557.7	5364.5	4847.1	4187.7	3474.9	2997.5	2637.8	2469.1	2364.7	2329.2	2302.6
12.5°	5764.2	5499.9	4756.1	3816.9	2937.6	2478.0	2249.3	2164.9	2131.6	2120.5	2113.8
15°	6023.9	5668.7	4618.4	3377.2	2482.4	2160.5	2062.8	2051.7	2056.1	2051.7	2049.4
17.5°	6332.6	5853.0	4394.2	2924.3	2176.0	1998.4	1962.8	1971.7	1982.8	1980.6	1976.2
20°	6670.1	6035.1	4107.7	2522.4	1967.3	1882.9	1862.9	1871.8	1880.7	1876.2	1874.0
22.5°	7054.2	6230.4	3790.2	2209.3	1827.4	1776.3	1754.1	1756.3	1756.3	1747.5	1743.0
25°	7513.8	6445.8	3457.2	1987.3	1720.8	1680.8	1654.2	1645.3	1632.0	1605.4	1600.9
27.5°	8062.3	6674.5	3137.4	1831.8	1636.4	1598.7	1567.6	1545.4	1512.1	1467.7	1463.2
30°	8679.6	6952.1	2866.5	1734.1	1569.8	1532.1	1496.6	1463.2	1414.4	1358.9	1354.4
32.5°	9405.6	7249.6	2668.9	1669.7	1509.9	1469.9	1427.7	1387.8	1334.5	1279.0	1281.2
35°	10271.6	7609.3	2553.5	1625.3	1463.2	1410.0	1363.3	1318.9	1279.0	1230.1	1225.7
37.5°	11210.8	7991.2	2517.9	1603.1	1432.2	1350.0	1296.7	1265.6	1261.2	1232.3	1230.1
40°	12238.9	8444.2	2544.6	1589.8	1398.9	1292.3	1234.5	1227.9	1239.0	1187.9	1190.1
42.5°	13326.9	8981.5	2589.0	1574.3	1352.2	1234.5	1179.0	1179.0	1170.2	1099.1	1099.1
45°	14503.7	9601.0	2633.4	1536.5	1296.7	1176.8	1134.6	1119.1	1081.3	1012.5	1010.3
47.5°	15689.4	10231.6	2666.7	1467.7	1230.1	1128.0	1090.2	1054.7	999.2	937.0	934.8
50°	16815.1	10797.8	2631.2	1365.5	1154.6	1081.3	1041.4	992.5	932.6	890.4	883.7
52.5°	17820.9	11288.5	2480.2	1245.6	1074.7	1032.5	997.0	945.9	897.0	852.6	848.2
55°	18695.8	11686.0	2213.7	1132.4	1003.6	990.3	954.8	890.4	823.8	786.0	781.6
57.5°	19535.1	11987.9	1880.7	1039.1	939.2	943.7	890.4	832.7	770.5	730.5	726.1
60°	20652.0	12392.1	1543.2	952.6	870.4	883.7	826.0	783.8	706.1	655.0	648.4
62.5°	22437.2	13020.4	1225.7	846.0	790.5	794.9	770.5	719.4	626.2	566.2	561.8
65°	23853.8	12789.5	965.9	730.5	699.4	706.1	706.1	650.6	550.7	481.8	475.2
67.5°	23693.9	10951.0	770.5	617.3	612.8	617.3	632.8	586.2	488.5	433.0	424.1
70°	21826.5	8710.6	617.3	512.9	532.9	521.8	566.2	535.1	439.6	384.1	377.5
72.5°	17809.8	6274.9	470.7	424.1	408.6	426.3	510.7	481.8	366.4	304.2	297.5
75°	10407.0	3348.4	350.8	335.3	295.3	355.3	453.0	410.8	279.8	224.3	217.6
77.5°	3388.3	1167.9	257.6	246.5	219.8	286.4	386.3	346.4	228.7	177.6	171.0
80°	908.1	353.0	175.4	162.1	142.1	213.2	306.4	275.3	164.3	115.5	113.2
82.5°	364.1	148.8	102.1	91.0	77.7	146.5	242.0	222.0	122.1	73.3	73.3
85°	117.7	48.8	37.7	28.9	35.5	91.0	144.3	151.0	86.6	37.7	28.9
87.5°	15.5	6.7	6.7	8.9	6.7	15.5	44.4	42.2	24.4	4.4	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)