

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: P956640

Luminaire Tested: **GALN-SB9B-727-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-727-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

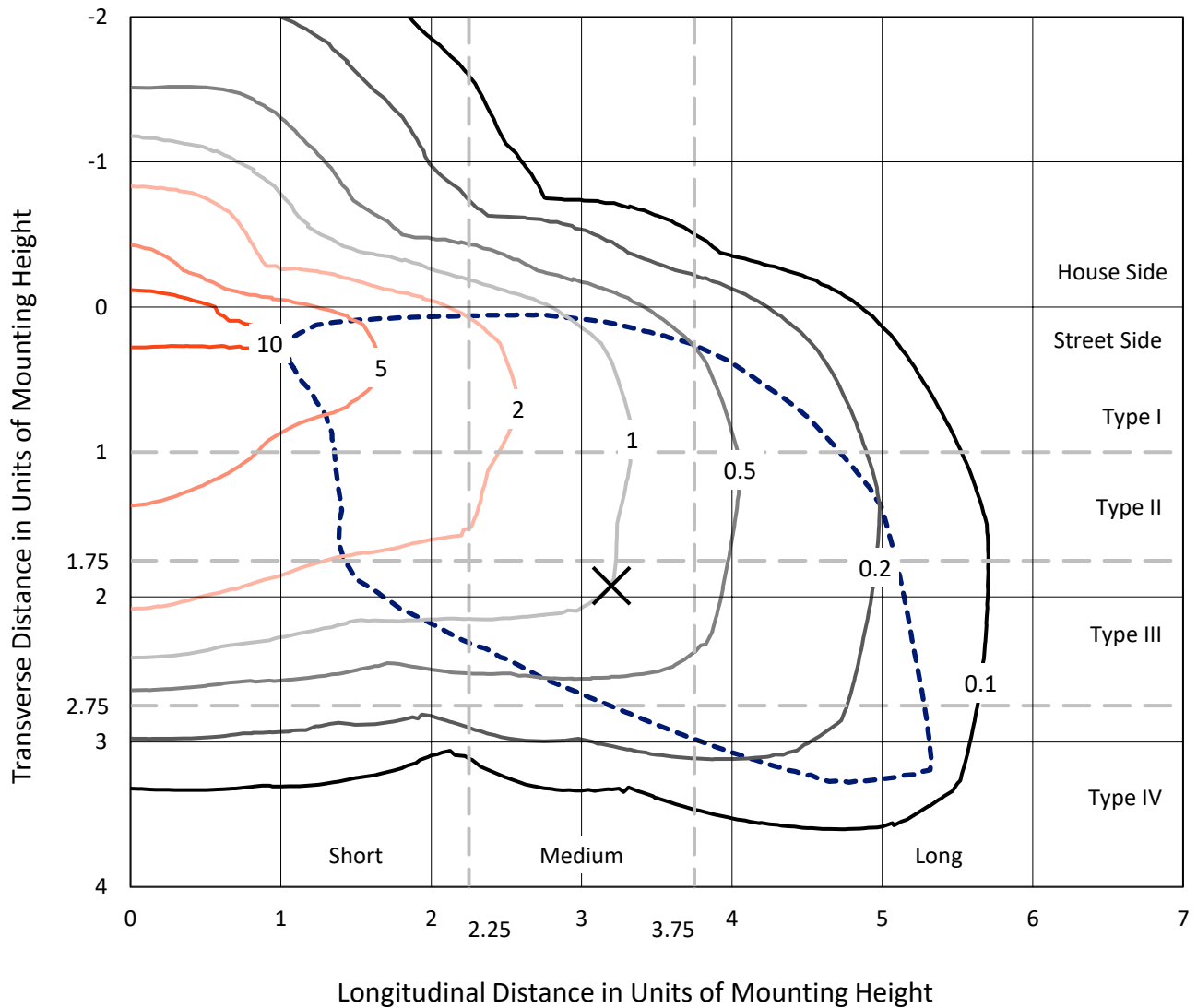
Lumens per Lamp: N/A  
Luminaire Lumens: 46495 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

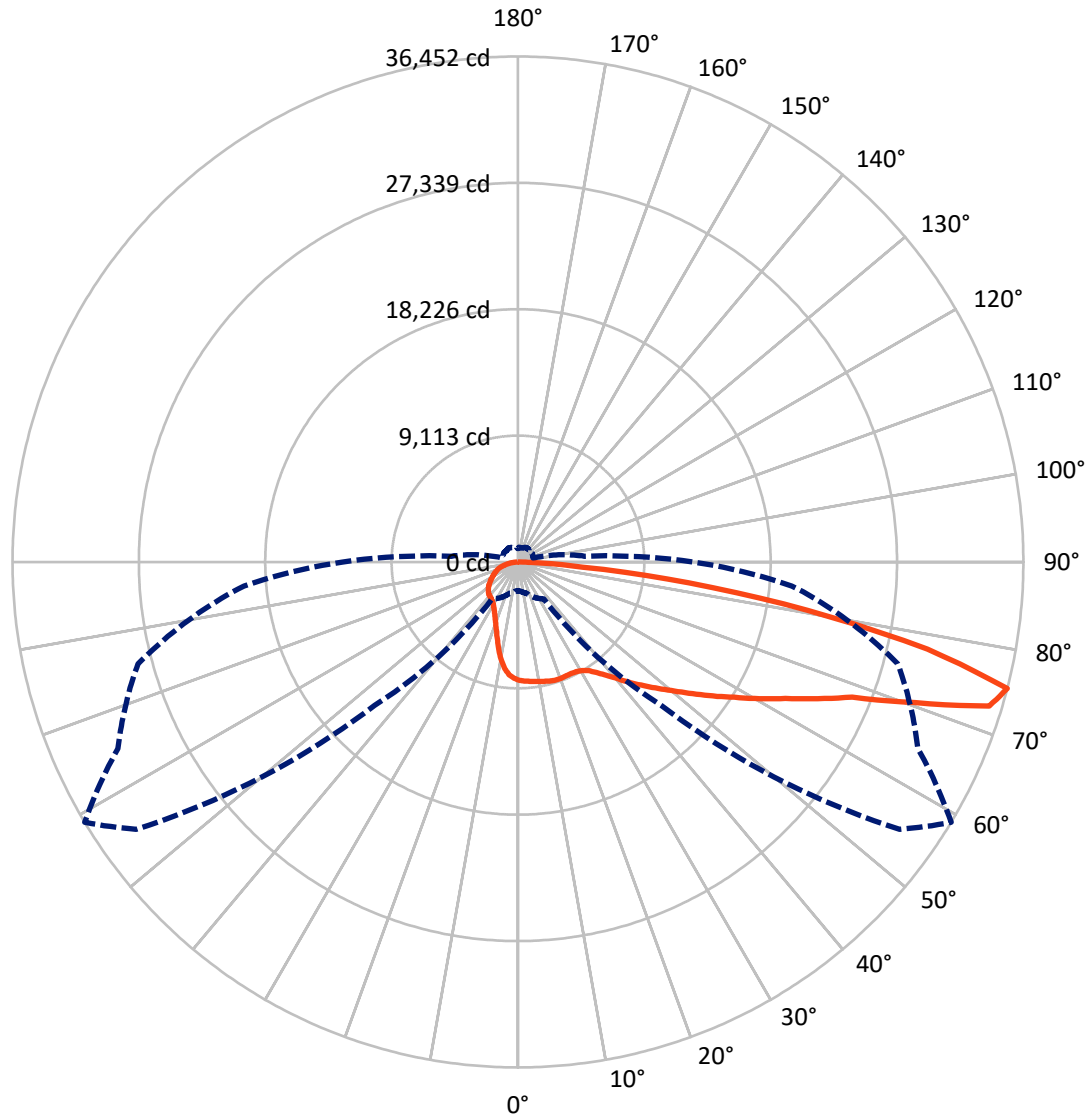
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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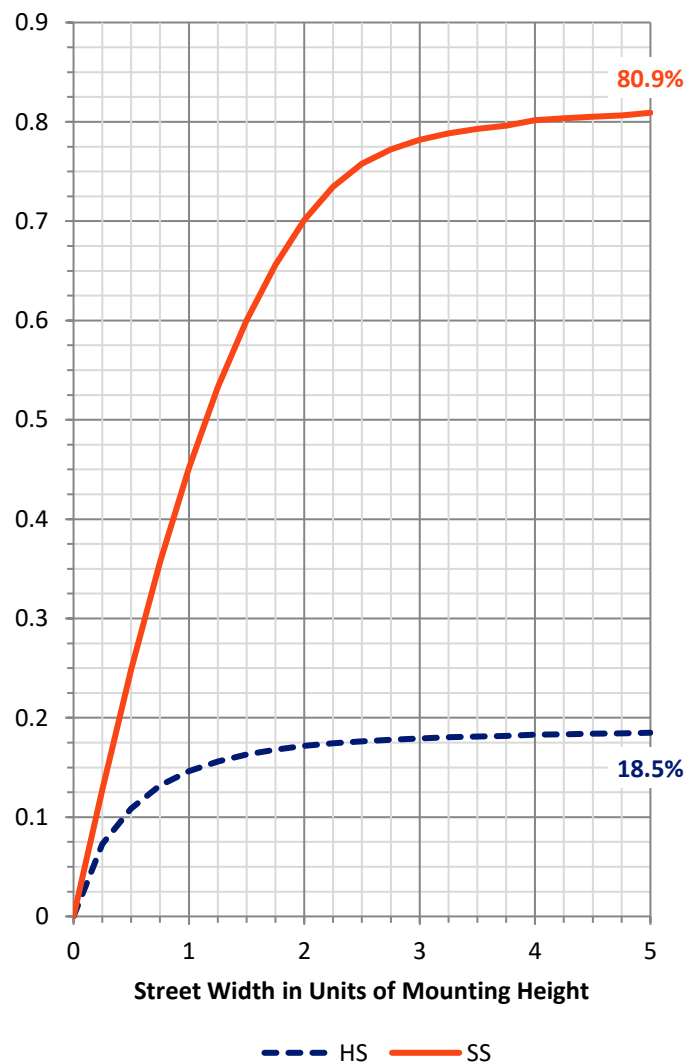
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8720.5	0.0	8720.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	37774.5	0.0	37774.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	46495.0	0.0	46495.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	765.2	1.6
10°-20°	1955.9	4.2
20°-30°	2970.9	6.4
30°-40°	4416.2	9.5
40°-50°	6567.6	14.1
50°-60°	8914.8	19.2
60°-70°	10883.5	23.4
70°-80°	8541.2	18.4
80°-90°	1479.6	3.2
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°	46495.0	100.0
0°-180°	46495.0	100.0

**Coefficient of Utilization**

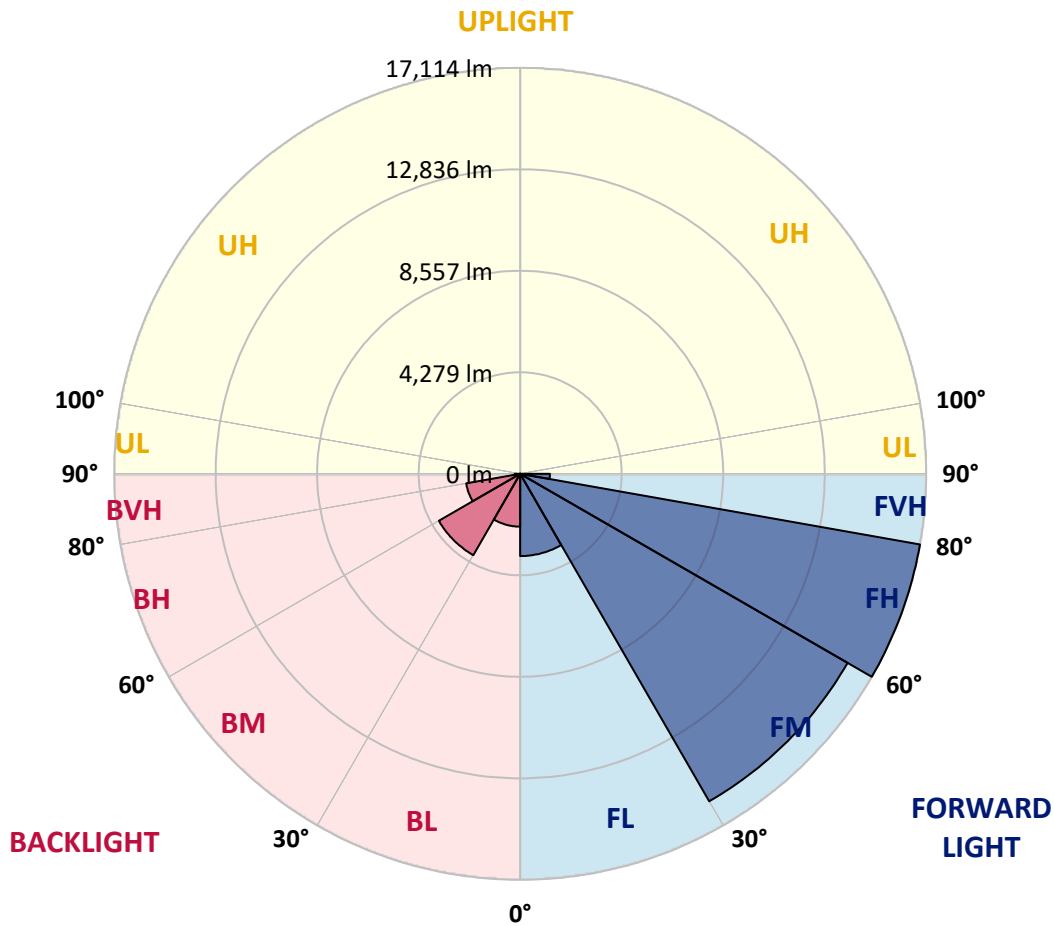


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3466.7	7.5			
FM (30°-60°)	15940.4	34.3			
FH (60°-80°)	17114.3	36.8			G5
FVH (80°-90°)	1253.1	2.7			G5
BL (0°-30°)	2225.4	4.8	B3/2500		
BM (30°-60°)	3958.2	8.5	B3/5000		
BH (60°-80°)	2310.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	226.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1
2.5°	8606.6	8576.6	8606.6	8594.1	8589.1	8579.1	8581.6	8599.1	8589.1	8601.6	8559.1
5°	8549.1	8531.6	8561.6	8554.1	8586.6	8591.6	8624.1	8644.1	8656.6	8659.1	8626.6
7.5°	8454.0	8436.5	8479.0	8514.0	8584.1	8604.1	8671.6	8704.1	8721.6	8751.7	8704.1
10°	8106.4	8098.8	8203.9	8336.5	8501.5	8604.1	8706.6	8761.7	8789.2	8869.2	8814.2
12.5°	7491.1	7501.1	7638.6	7893.7	8223.9	8554.1	8746.7	8826.7	8869.2	8969.3	8944.2
15°	6903.3	6900.8	7050.8	7323.5	7786.2	8334.0	8766.7	8904.2	8976.8	9124.3	9104.3
17.5°	6563.1	6553.1	6658.2	6865.8	7296.0	7996.3	8716.6	8946.7	9101.8	9286.9	9269.4
20°	6500.6	6480.6	6535.6	6638.2	6943.3	7626.1	8586.6	8946.7	9201.9	9442.0	9432.0
22.5°	6728.2	6695.7	6673.2	6660.7	6795.7	7321.0	8439.0	8916.7	9349.4	9664.6	9647.1
25°	7185.9	7135.9	7020.8	6908.3	6868.3	7183.4	8308.9	8909.2	9569.5	9964.7	9899.7
27.5°	7926.3	7863.7	7631.1	7361.0	7118.4	7253.4	8251.4	8954.3	9812.2	10282.4	10152.3
30°	8844.2	8776.7	8484.0	8068.8	7633.6	7513.6	8324.0	9086.8	10122.3	10705.1	10450.0
32.5°	9667.1	9592.1	9341.9	8919.2	8331.5	7963.8	8554.1	9339.4	10610.0	11292.9	10897.7
35°	10397.4	10309.9	10084.8	9694.6	9186.9	8596.6	8969.3	9787.1	11302.9	12248.3	11505.5
37.5°	11112.8	11010.2	10765.1	10352.4	9997.2	9439.5	9542.0	10362.4	12223.3	13408.9	12310.8
40°	11913.2	11765.6	11467.9	11060.3	10715.1	10427.5	10294.9	11067.8	13158.8	14704.5	13316.3
42.5°	12688.5	12548.5	12193.3	11845.6	11412.9	11330.4	11167.8	11893.1	14181.7	16127.7	14336.8
45°	13523.9	13356.3	12926.1	12485.9	12213.3	11930.7	12013.2	12718.5	15184.7	17578.3	15407.3
47.5°	14306.8	14119.2	13611.5	13121.2	12971.2	12435.9	12788.6	13626.5	16227.7	19049.0	16467.8
50°	14729.5	14544.4	14121.7	13679.0	13561.4	13058.7	13629.0	14624.4	17320.7	20514.7	17485.8
52.5°	15082.2	14882.1	14329.3	14084.2	14049.2	13736.5	14664.5	15765.0	18413.7	21810.4	18468.8
55°	15457.3	15234.7	14529.4	14309.3	14469.4	14496.9	15892.5	17058.1	19569.3	23073.5	19396.7
57.5°	15890.0	15607.4	14722.0	14499.4	14879.6	15387.3	17303.2	18398.7	20704.8	24244.0	20222.1
60°	16297.7	16012.6	15092.2	14802.0	15322.3	16420.3	18921.5	20022.0	21990.4	25287.0	21002.5
62.5°	16377.8	16142.7	15387.3	15384.8	15922.6	17625.9	20837.4	21660.3	23113.5	26317.5	21702.8
65°	14992.1	14844.6	14396.8	15362.3	16783.0	19361.7	22970.9	23756.3	24541.7	27217.9	22318.1
67.5°	11410.4	11430.4	11397.9	13261.3	16087.6	21855.4	26059.9	25999.8	26305.0	28228.4	23025.9
70°	5217.5	5335.0	6100.4	9154.3	12888.6	22143.0	31167.3	30389.4	28518.5	29536.5	23638.7
72.5°	2818.8	2908.9	3221.5	4434.6	7748.7	19686.9	34984.1	35536.9	31462.4	30416.9	22965.9
75°	2068.5	2118.5	2336.1	2818.8	3254.0	14632.0	33616.0	36452.3	31830.1	28363.5	19831.9
77.5°	1548.2	1570.7	1748.3	2233.6	1665.8	7713.7	26860.3	30189.3	27247.9	23303.6	14649.5
80°	1123.0	1148.0	1280.6	1675.8	1168.1	2821.3	18443.8	21190.1	18661.4	14854.6	7301.0
82.5°	775.4	785.4	842.9	1140.5	815.4	1095.5	10465.0	12425.9	10417.4	5212.5	1970.9
85°	467.7	480.2	505.2	665.3	462.7	520.2	4517.1	4672.2	3114.0	1245.6	612.8
87.5°	192.6	205.1	225.1	280.1	182.6	145.1	745.4	935.4	582.8	365.2	190.1
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°	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1	8534.1
2.5°	8546.6	8529.1	8481.5	8416.5	8356.5	8281.4	8248.9	8221.4	8196.4	8148.9	8126.4
5°	8599.1	8551.6	8424.0	8258.9	8071.3	7866.2	7666.1	7528.6	7411.0	7323.5	7250.9
7.5°	8679.1	8589.1	8356.5	8018.8	7588.6	7148.4	6750.7	6468.1	6255.5	6177.9	6042.9
10°	8761.7	8654.1	8248.9	7653.6	6910.8	6233.0	5705.2	5415.1	5245.0	5190.0	5104.9
12.5°	8859.2	8701.6	8081.3	7145.9	6152.9	5410.1	4949.9	4779.8	4692.2	4662.2	4669.7
15°	9001.8	8741.7	7828.7	6510.6	5430.1	4809.8	4512.1	4394.6	4349.6	4347.1	4357.1
17.5°	9109.3	8749.2	7436.0	5830.3	4874.8	4447.1	4202.0	4157.0	4187.0	4232.0	4249.5
20°	9229.4	8681.6	6920.8	5210.0	4484.6	4129.5	4026.9	4056.9	4129.5	4194.5	4217.0
22.5°	9314.4	8559.1	6298.0	4727.2	4147.0	3946.9	3941.9	4004.4	4044.4	4076.9	4094.4
25°	9389.5	8351.5	5637.7	4322.1	3869.3	3836.8	3891.8	3871.8	3844.3	3871.8	3889.3
27.5°	9444.5	8023.8	5047.4	3966.9	3674.2	3761.8	3729.3	3684.3	3681.7	3696.8	3721.8
30°	9427.0	7586.1	4562.2	3629.2	3536.7	3621.7	3544.2	3536.7	3529.2	3536.7	3564.2
32.5°	9427.0	7088.4	4189.5	3396.6	3449.1	3416.6	3409.1	3391.6	3361.6	3359.1	3391.6
35°	9479.5	6590.6	3869.3	3271.6	3376.6	3299.1	3304.1	3261.5	3199.0	3169.0	3199.0
37.5°	9587.1	6190.4	3551.7	3211.5	3249.0	3246.5	3226.5	3154.0	3043.9	2948.9	2981.4
40°	9847.2	6072.9	3334.1	3184.0	3189.0	3219.0	3166.5	3026.4	2776.3	2621.2	2641.3
42.5°	10254.9	6270.5	3286.6	3116.5	3149.0	3179.0	3076.5	2751.3	2573.7	2481.2	2481.2
45°	10772.6	6615.6	3389.1	3018.9	3054.0	3106.5	2801.3	2646.3	2566.2	2568.7	2581.2
47.5°	11427.9	6978.3	3579.2	2933.9	2916.4	2946.4	2618.7	2523.7	2413.6	2441.2	2511.2
50°	12185.8	7346.0	3759.3	2818.8	2763.8	2666.3	2501.2	2411.1	2271.1	2206.0	2223.6
52.5°	13006.2	7701.2	3831.8	2678.8	2598.7	2486.2	2421.2	2311.1	2141.0	2033.5	2031.0
55°	13784.0	8023.8	3751.8	2511.2	2433.7	2346.1	2336.1	2268.6	2086.0	1935.9	1935.9
57.5°	14519.4	8293.9	3551.7	2341.1	2266.1	2213.6	2281.1	2248.6	2018.5	1825.9	1815.9
60°	15142.2	8479.0	3261.5	2168.5	2116.0	2088.5	2191.0	2181.0	1923.4	1708.3	1700.8
62.5°	15637.4	8551.6	2941.4	2003.5	1990.9	1940.9	2066.0	2066.0	1803.4	1593.3	1585.8
65°	16025.1	8481.5	2616.2	1840.9	1865.9	1790.9	1913.4	1898.4	1675.8	1490.7	1480.7
67.5°	16367.8	8251.4	2256.1	1680.8	1738.3	1643.3	1753.3	1718.3	1535.7	1388.2	1378.2
70°	16520.3	7716.2	1845.9	1520.7	1590.8	1498.2	1593.3	1528.2	1378.2	1278.1	1258.1
72.5°	15294.8	6413.0	1453.2	1353.1	1413.2	1338.1	1420.7	1345.6	1208.1	1163.1	1125.5
75°	12653.5	4812.3	1118.0	1170.6	1215.6	1158.1	1213.1	1158.1	1033.0	1065.5	973.0
77.5°	9189.4	3249.0	855.4	978.0	998.0	968.0	1015.5	953.0	840.4	832.9	795.4
80°	4569.7	1903.4	670.3	772.9	765.4	745.4	800.4	770.4	675.3	715.3	707.8
82.5°	1323.1	815.4	487.7	542.8	527.8	532.8	572.8	587.8	880.4	872.9	892.9
85°	415.2	320.2	292.6	302.6	287.6	295.1	337.7	670.3	620.3	362.7	392.7
87.5°	107.6	110.1	72.5	77.5	80.0	95.0	107.6	407.7	195.1	127.6	135.1
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)