

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: P951301

Luminaire Tested: **GALN-SB5C-730-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-730-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

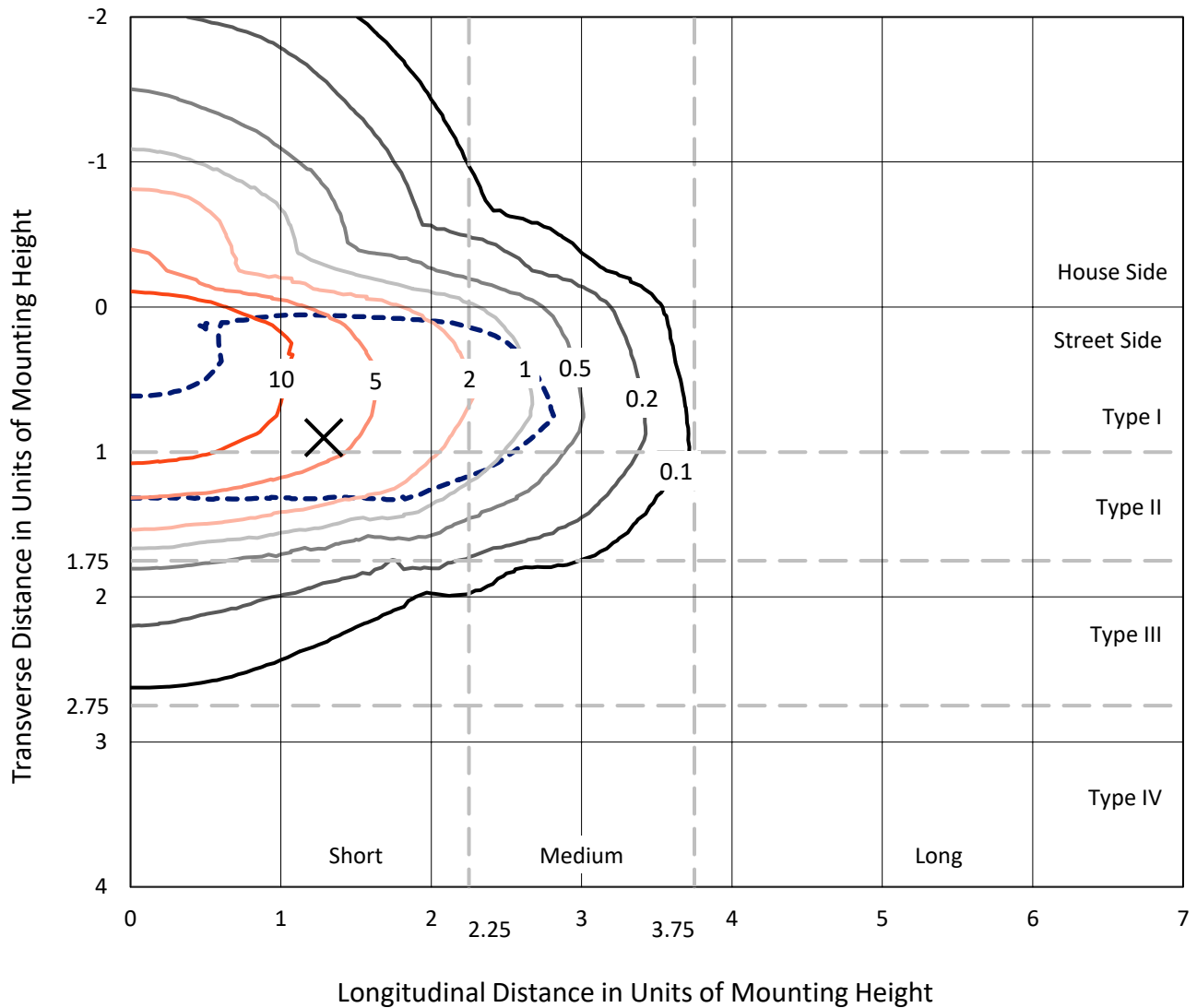
Lumens per Lamp: N/A  
Luminaire Lumens: 38475 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

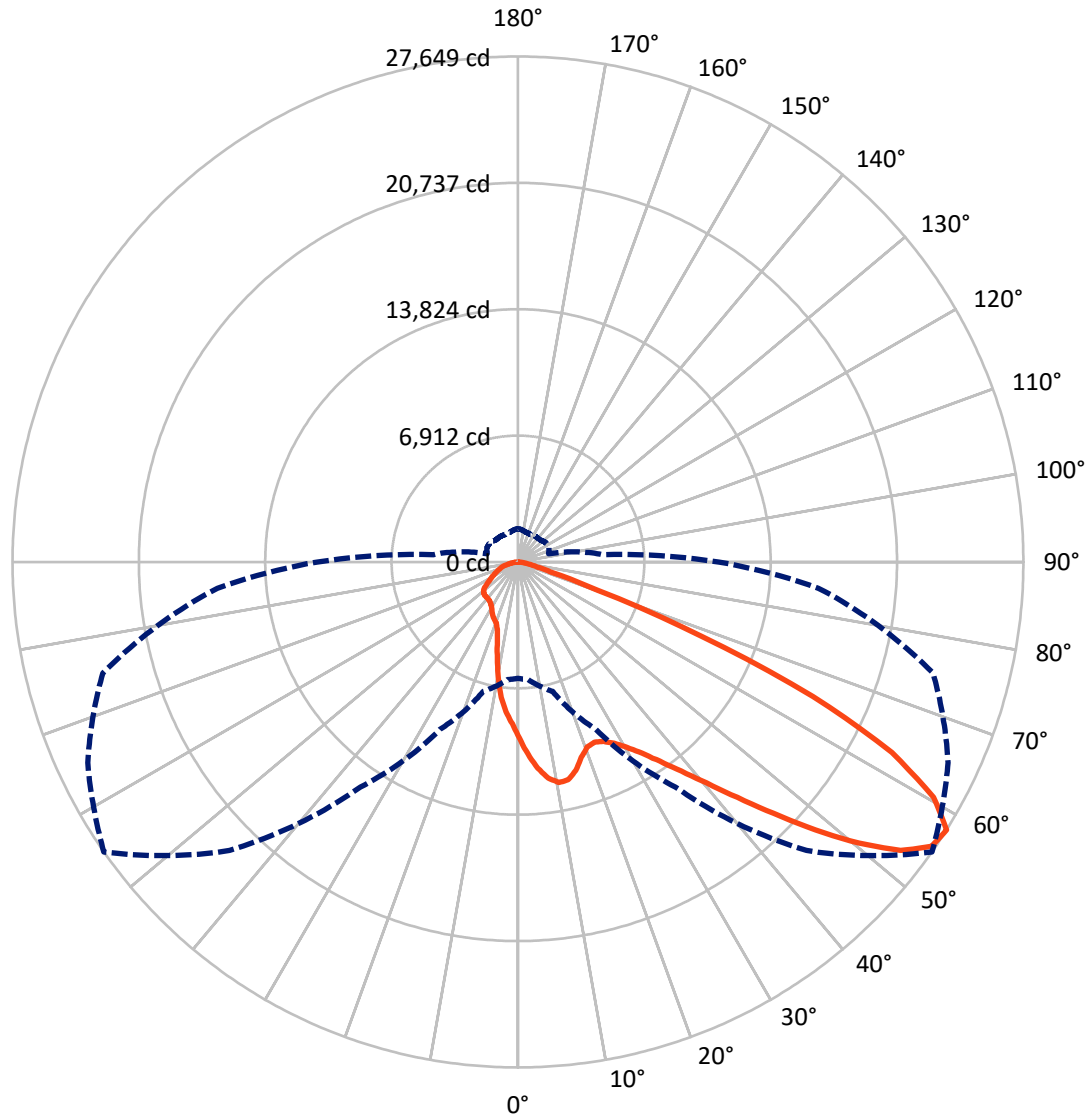
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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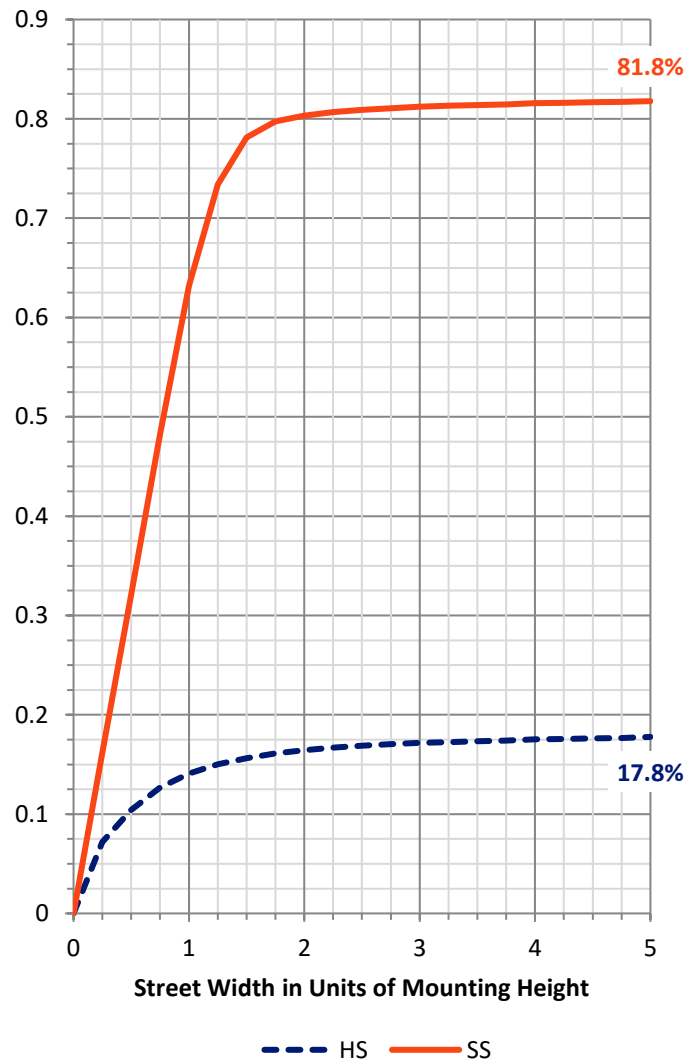
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6961.9	0.0	6961.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	31513.1	0.0	31513.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	38475.0	0.0	38475.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	894.6	2.3
10°-20°	2258.0	5.9
20°-30°	3603.1	9.4
30°-40°	5704.6	14.8
40°-50°	8731.5	22.7
50°-60°	9352.2	24.3
60°-70°	5883.5	15.3
70°-80°	1739.9	4.5
80°-90°	307.6	0.8
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°	38475.0	100.0
0°-180°	38475.0	100.0

**Coefficient of Utilization**



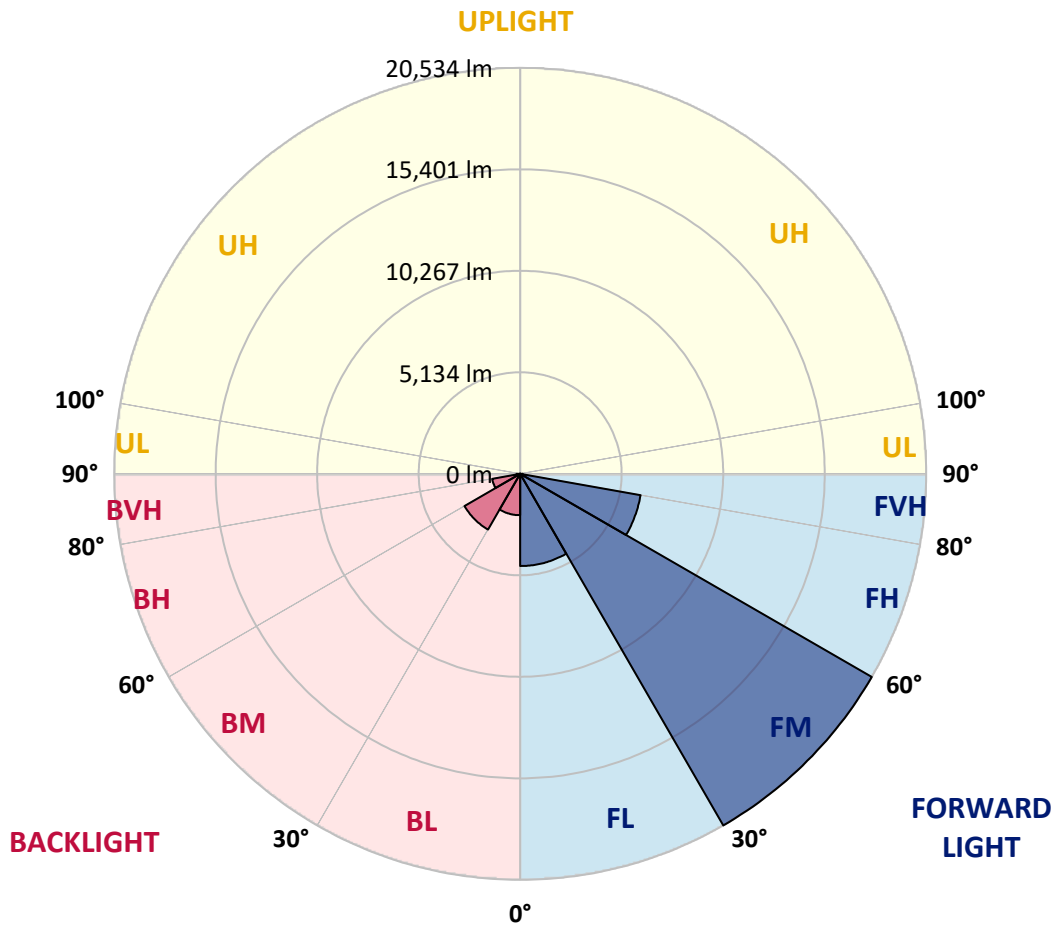
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4663.2	12.1			
FM (30°-60°)	20534.4	53.4			
FH (60°-80°)	6185.6	16.1			G3/7500
FVH (80°-90°)	130.0	0.3			G2/225
BL (0°-30°)	2092.5	5.4	B3/2500		
BM (30°-60°)	3253.9	8.5	B3/5000		
BH (60°-80°)	1437.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	177.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6
2.5°	11060.7	11052.8	11096.5	10947.3	10845.9	10708.7	10527.7	10296.9	10048.3	9785.8	9672.4
5°	12057.2	11987.6	12033.3	11921.9	11810.6	11603.7	11335.2	10959.3	10499.8	9976.7	9698.3
7.5°	11900.1	11852.3	11969.7	12069.1	12152.7	12126.8	11929.9	11536.1	10943.4	10183.6	9779.8
10°	10633.1	10579.4	10744.5	11088.6	11593.8	12033.3	12272.0	12027.4	11396.9	10410.3	9859.4
12.5°	9515.3	9489.4	9598.8	9877.3	10438.2	11281.5	12228.2	12457.0	11868.2	10678.8	9966.8
15°	9037.9	9006.1	9075.7	9216.9	9574.9	10360.6	11830.5	12751.4	12331.7	10989.1	10137.8
17.5°	8932.5	8896.7	8926.5	9000.1	9230.9	9829.5	11229.8	12896.5	12815.0	11335.2	10281.0
20°	9127.4	9097.6	9101.6	9097.6	9258.7	9734.1	10812.1	12840.9	13236.7	11653.4	10420.3
22.5°	9598.8	9549.1	9551.1	9445.7	9533.2	9901.1	10702.7	12691.7	13612.6	11931.9	10525.7
25°	10366.6	10277.1	10295.0	10026.4	10002.6	10275.1	10873.8	12576.3	13986.5	12154.7	10545.6
27.5°	11416.7	11315.3	11261.6	10861.8	10670.9	10806.1	11221.8	12616.1	14340.5	12347.6	10495.8
30°	12729.5	12606.2	12496.8	11929.9	11583.8	11534.1	11762.8	12878.6	14758.2	12550.5	10410.3
32.5°	14338.6	14195.4	13996.5	13244.6	12757.3	12496.8	12462.9	13346.1	15247.5	12809.0	10366.6
35°	16253.9	16067.0	15784.5	14811.9	14195.4	13662.3	13385.8	14020.3	15917.8	13198.9	10416.3
37.5°	18227.0	18016.2	17757.6	16600.0	15842.2	15056.6	14511.6	14935.3	16810.9	13727.9	10547.6
40°	20046.9	19810.2	19569.6	18539.3	17725.8	16779.0	15890.0	16092.8	17902.8	14360.4	10770.3
42.5°	21121.0	20945.9	20854.5	20297.5	19669.0	18708.3	17604.5	17465.2	19130.0	15088.4	11024.9
45°	21073.2	21001.6	21284.1	21514.8	21365.6	20832.6	19613.3	18982.8	20361.2	15718.9	11259.6
47.5°	19947.5	19995.2	20625.7	21922.5	22493.4	22771.8	21900.7	20472.6	21431.3	16190.3	11365.0
50°	16884.5	16924.2	18384.1	21180.6	22783.8	24353.1	24170.1	21926.5	22260.7	16478.7	11341.2
52.5°	14459.9	14485.7	15112.3	18980.8	21825.1	25148.7	26214.8	23296.9	22867.3	16558.3	11207.9
55°	10891.7	10981.2	11683.3	14891.5	19330.9	24518.2	27459.9	24709.1	23251.2	16566.2	11068.7
57.5°	6362.7	6460.2	7327.4	10108.0	15024.8	22320.3	27648.8	25962.2	23511.7	16502.6	10985.1
60°	3116.7	3158.5	3536.4	5312.6	9264.7	18085.8	26129.2	26568.8	23656.9	16468.8	10981.2
62.5°	2100.4	2094.4	2110.3	2621.5	4564.7	11619.6	22962.8	25506.7	23579.4	16339.5	10941.4
65°	1806.0	1784.1	1724.4	1839.8	2364.9	5314.6	17741.7	22336.2	22988.6	16015.3	10668.9
67.5°	1561.3	1563.3	1565.3	1529.5	1688.6	2452.4	10841.9	17594.5	20868.4	14479.8	9618.7
70°	1292.8	1310.7	1318.7	1318.7	1376.4	1609.1	4628.4	12059.2	16460.8	11353.1	7747.1
72.5°	1177.5	1139.7	1143.7	1123.8	1123.8	1225.2	1863.7	6836.1	10370.5	6386.6	4727.8
75°	960.7	984.5	988.5	974.6	928.9	934.8	1105.9	2868.1	4437.4	2649.3	2337.1
77.5°	829.4	829.4	837.4	827.4	791.6	700.1	737.9	1111.8	1509.6	1086.0	1167.5
80°	666.3	664.3	698.1	718.0	662.3	517.1	471.4	614.6	670.3	477.4	606.6
82.5°	324.2	344.1	479.3	547.0	503.2	373.9	288.4	381.9	358.0	210.8	272.5
85°	189.0	179.0	214.8	304.3	288.4	206.9	139.2	198.9	187.0	107.4	109.4
87.5°	59.7	55.7	43.8	103.4	83.5	57.7	37.8	57.7	51.7	23.9	23.9
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6	9640.6
2.5°	9531.2	9296.5	9063.8	8851.0	8721.7	8638.1	8554.6	8461.1	8425.3	8371.6
5°	9435.7	8982.2	8578.5	8230.4	7914.2	7665.5	7414.9	7212.0	7120.5	7182.2
7.5°	9380.0	8723.7	8101.1	7462.7	6848.1	6356.8	5929.1	5628.8	5493.6	5527.4
10°	9330.3	8431.3	7482.5	6474.1	5591.0	4982.4	4544.8	4316.1	4230.6	4248.5
12.5°	9284.6	8103.1	6736.7	5410.0	4471.2	4069.5	3944.1	3946.1	3962.0	3974.0
15°	9276.6	7707.3	5903.3	4479.2	3866.6	3840.7	3976.0	4061.5	4107.2	4121.2
17.5°	9264.7	7233.9	5054.0	3844.7	3719.4	3894.4	4019.7	4075.4	4111.2	4113.2
20°	9216.9	6633.2	4270.3	3542.4	3687.6	3838.7	3916.3	3960.1	3989.9	3999.8
22.5°	9069.7	5965.0	3659.7	3407.1	3560.3	3681.6	3773.1	3822.8	3840.7	3852.7
25°	8805.2	5217.1	3238.1	3277.8	3383.3	3536.4	3610.0	3619.9	3614.0	3631.9
27.5°	8459.1	4415.5	2975.5	3102.8	3238.1	3369.3	3409.1	3403.1	3391.2	3411.1
30°	8041.4	3695.5	2808.4	2905.9	3090.9	3210.2	3246.0	3232.1	3208.2	3230.1
32.5°	7599.9	3106.8	2671.2	2768.7	2969.5	3086.9	3122.7	3108.8	3090.9	3108.8
35°	7188.2	2695.1	2543.9	2677.2	2874.1	2989.4	3035.2	3037.2	3037.2	3059.1
37.5°	6810.3	2454.4	2438.5	2619.5	2808.4	2911.9	2977.5	2981.5	2896.0	2901.9
40°	6460.2	2353.0	2390.8	2581.7	2744.8	2844.2	2848.2	2625.5	2468.3	2464.3
42.5°	6173.8	2333.1	2404.7	2577.7	2699.0	2703.0	2422.6	2249.5	2205.8	2207.8
45°	5905.3	2327.1	2436.5	2577.7	2631.4	2335.1	2146.1	2100.4	2104.3	2120.3
47.5°	5604.9	2303.2	2442.5	2541.9	2436.5	2076.5	2020.8	2000.9	1993.0	1996.9
50°	5276.8	2217.7	2366.9	2470.3	2102.4	1965.1	1895.5	1889.5	1899.5	1905.4
52.5°	4930.7	2078.5	2237.6	2341.0	1949.2	1867.7	1790.1	1804.0	1847.8	1861.7
55°	4703.9	1915.4	2066.6	2082.5	1841.8	1776.2	1710.5	1742.3	1823.9	1849.8
57.5°	4644.3	1742.3	1871.6	1853.7	1704.6	1696.6	1656.8	1684.7	1788.1	1825.9
60°	4626.4	1587.2	1680.7	1666.8	1571.3	1609.1	1599.1	1613.1	1648.9	1660.8
62.5°	4487.1	1463.9	1509.6	1489.7	1452.0	1517.6	1541.5	1511.6	1539.5	1553.4
65°	4133.1	1364.4	1342.6	1328.6	1344.6	1404.2	1452.0	1392.3	1418.1	1457.9
67.5°	3548.3	1229.2	1169.5	1185.4	1235.2	1267.0	1328.6	1261.0	1282.9	1350.5
70°	2870.1	1058.1	1004.4	1050.2	1097.9	1163.6	1173.5	1127.8	1179.5	1255.0
72.5°	2030.7	885.1	847.3	940.8	956.7	1042.2	1020.3	998.5	1070.1	1095.9
75°	1408.2	714.0	692.2	763.8	821.4	895.0	879.1	905.0	1056.1	1068.1
77.5°	891.1	554.9	541.0	586.7	666.3	747.9	773.7	1068.1	1804.0	1875.6
80°	517.1	413.7	397.8	433.6	503.2	578.8	745.9	1310.7	1189.4	1175.5
82.5°	288.4	284.4	264.5	274.5	336.1	417.7	1054.2	922.9	749.8	773.7
85°	135.3	167.1	143.2	137.2	189.0	489.3	704.1	527.1	350.1	342.1
87.5°	35.8	31.8	31.8	35.8	79.6	421.7	280.4	224.8	133.3	129.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)