

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: P648582

Luminaire Tested: **GALN-SA8B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26838.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

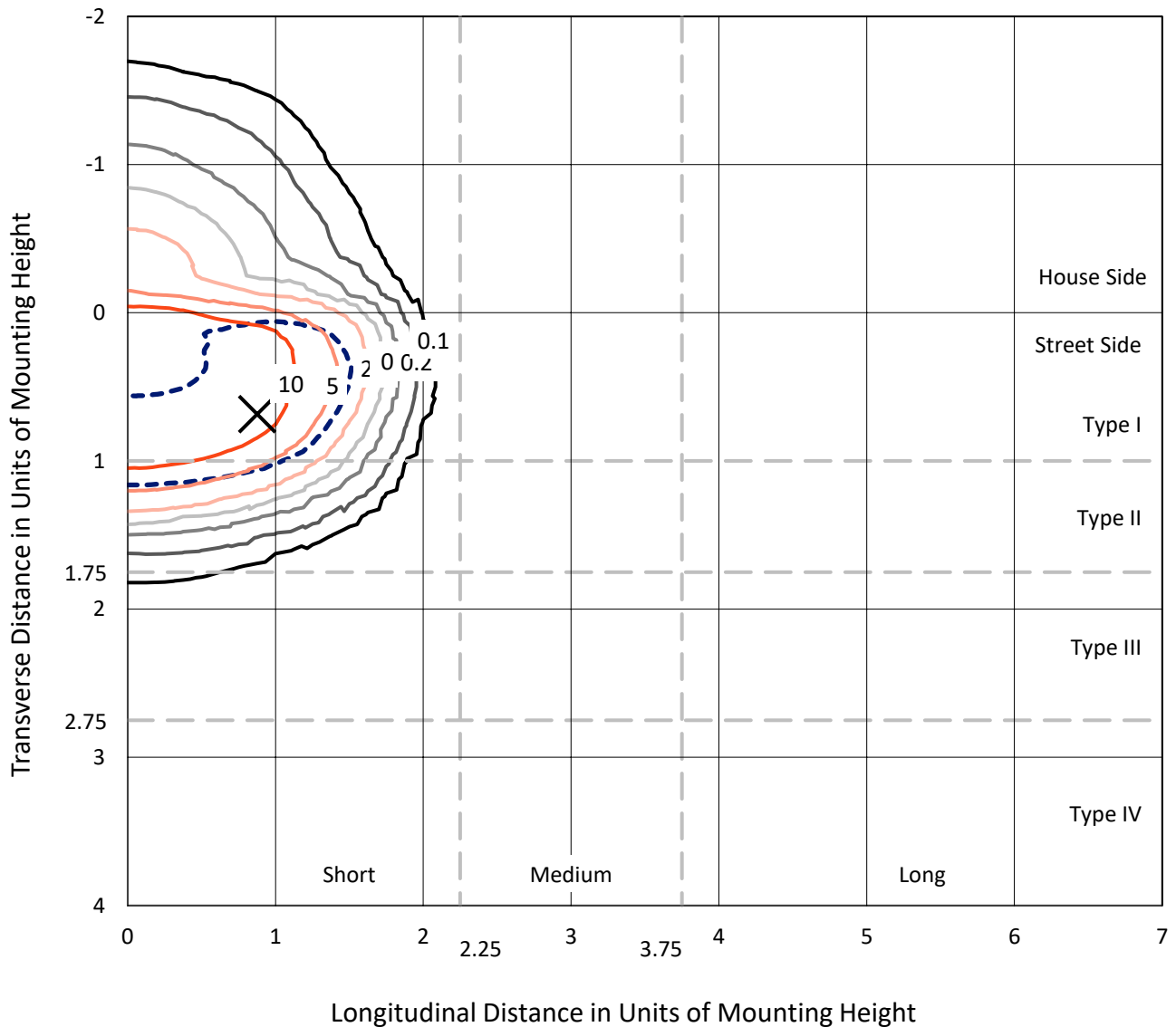
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

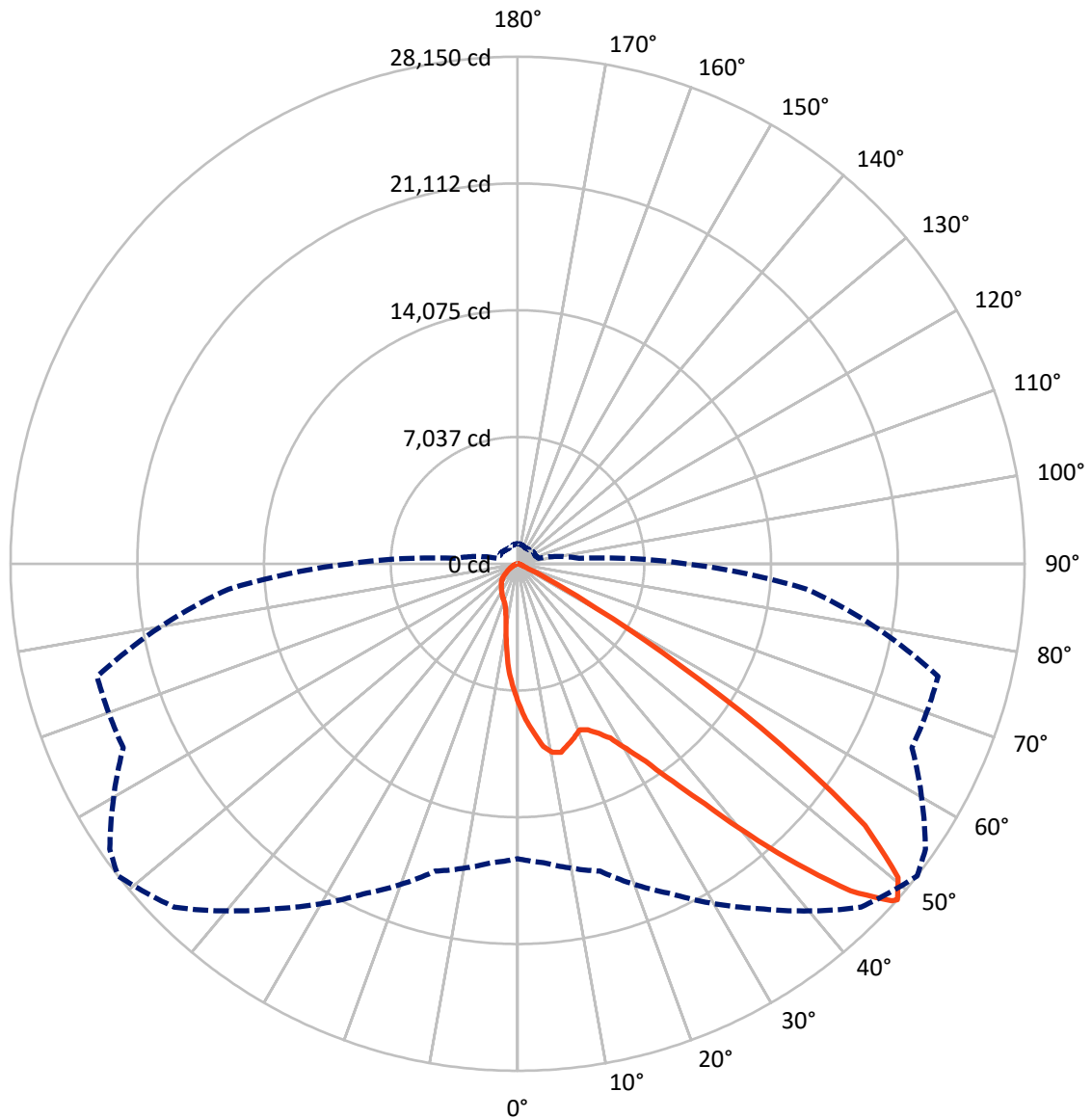
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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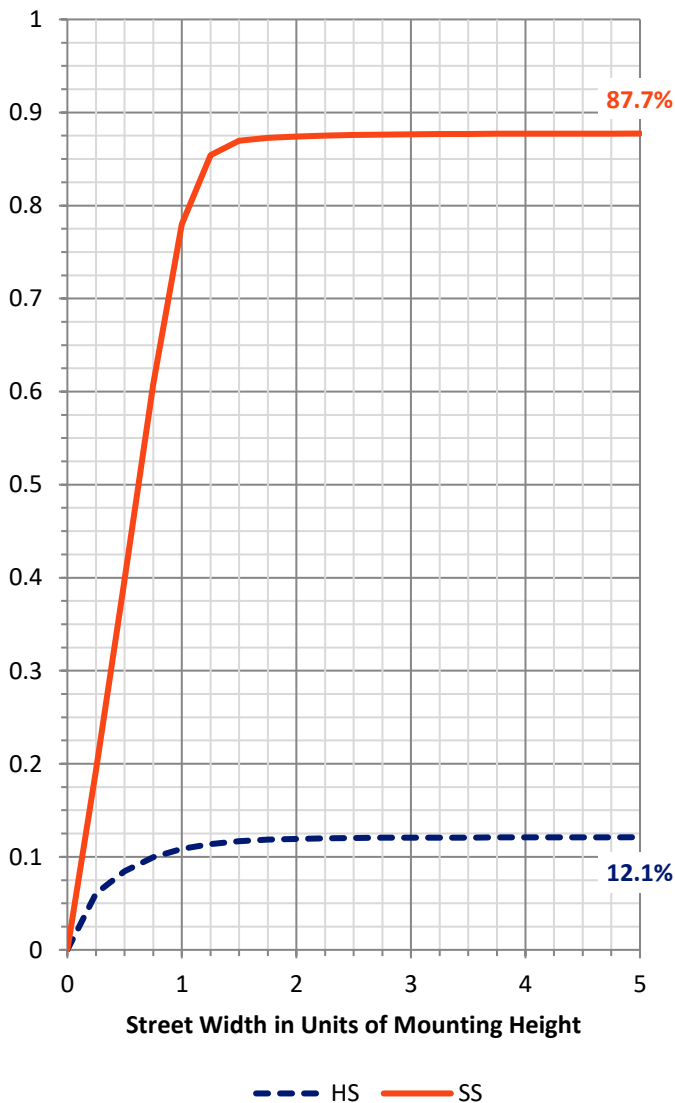
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3267.7	0.0	3267.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23570.4	0.0	23570.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	26838.1	0.0	26838.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.4	2.6
10°-20°	1853.9	6.9
20°-30°	3165.3	11.8
30°-40°	5828.9	21.7
40°-50°	9052.3	33.7
50°-60°	5448.0	20.3
60°-70°	630.1	2.3
70°-80°	122.0	0.5
80°-90°	28.2	0.1
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°	26838.1	100.0
0°-180°	26838.1	100.0

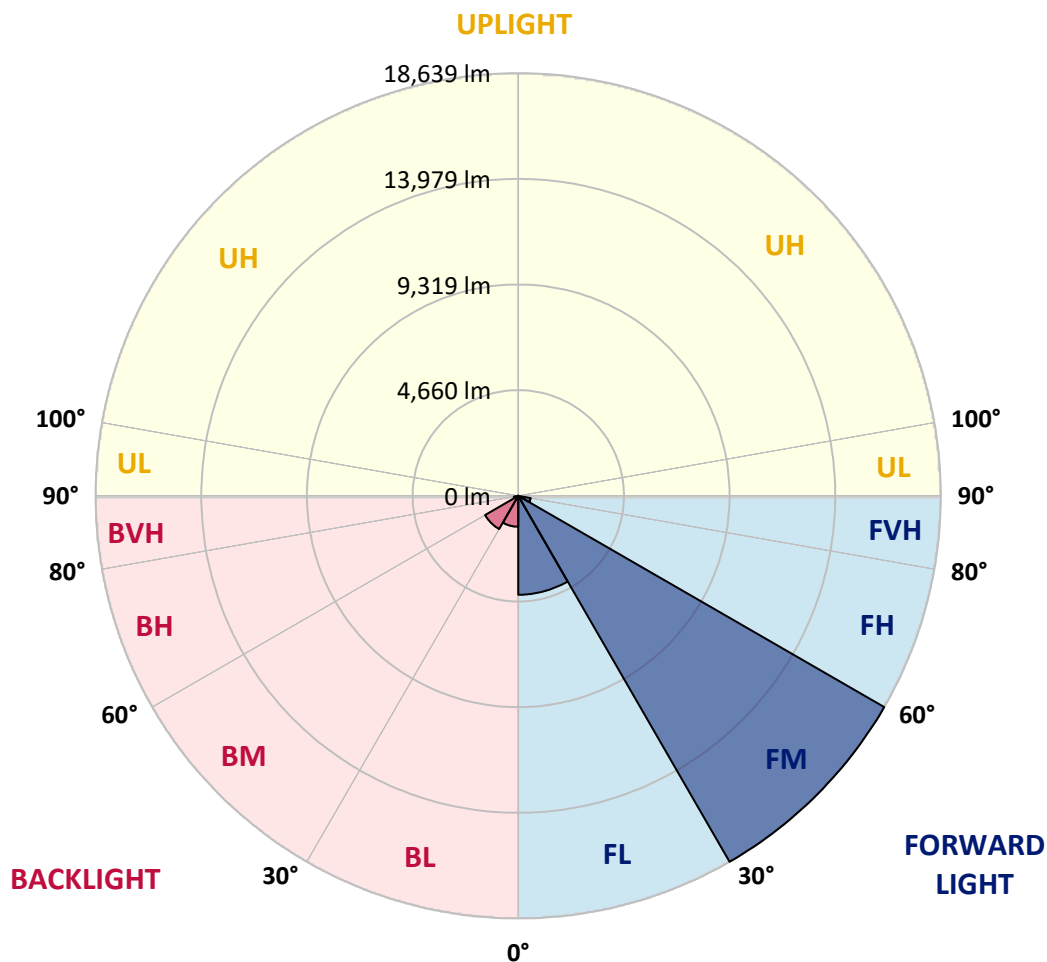


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4363.5	16.3			
FM (30°-60°)	18638.5	69.4			
FH (60°-80°)	554.9	2.1			G0/660
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	1365.1	5.1	B3/2500		
BM (30°-60°)	1690.7	6.3	B2/2500		
BH (60°-80°)	197.2	0.7	B1/500		G1/500
BVH (80°-90°)	14.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4
2.5°	9393.6	9178.4	9198.0	9057.1	8975.0	8841.9	8662.0	8626.8	8431.2	8165.1	7895.1
5°	10238.7	10187.8	10254.3	10050.9	10058.7	9839.6	9417.1	9424.9	8975.0	8540.7	8122.1
7.5°	10293.5	10176.1	10242.6	10422.5	10528.2	10489.1	10250.4	10043.1	9616.6	8978.9	8368.5
10°	9217.6	9440.6	9510.9	9808.3	10230.8	10676.8	10649.4	10661.2	10305.1	9471.9	8579.8
12.5°	8572.0	8423.4	8662.0	8841.9	9479.7	10344.3	10739.5	10825.5	10852.9	9949.1	8791.1
15°	8278.6	8278.6	8317.7	8368.5	8830.2	9628.3	10434.3	10684.7	11275.4	10575.1	9123.7
17.5°	8462.4	8454.6	8509.4	8403.8	8575.9	9190.1	10152.6	10438.2	11748.8	11189.4	9385.7
20°	9021.9	9049.3	9014.1	8708.9	8720.7	9182.3	9839.6	10289.6	12069.6	11721.4	9733.9
22.5°	9800.5	9816.2	9616.6	9284.0	9186.2	9413.1	10019.6	10363.9	12327.9	12359.2	9839.6
25°	10700.3	10637.8	10598.6	10129.1	9831.8	10027.4	10426.4	10626.0	12488.3	12906.9	10140.9
27.5°	11948.3	11823.1	11584.5	11165.9	10946.8	10669.0	10954.6	11283.3	12946.0	13673.7	10469.5
30°	13791.1	13681.5	13215.9	12676.1	12101.0	11827.1	11917.1	12097.0	13771.6	14561.8	10903.7
32.5°	16565.0	16334.2	15661.2	14632.2	13849.8	13094.7	13071.2	13262.9	14510.9	15790.3	11420.2
35°	19620.5	19550.1	18560.2	17500.0	15986.0	14820.1	14839.6	14941.4	15927.2	17402.2	12097.0
37.5°	21651.0	22038.4	21408.5	20270.0	18998.5	17331.8	16909.3	16944.4	17871.7	19311.4	13317.7
40°	23219.9	22891.2	22965.6	22699.6	21831.0	20696.4	19761.4	19577.5	20121.3	21424.1	14530.5
42.5°	22535.2	22550.9	23008.6	23638.5	23853.7	23771.6	22816.9	22468.7	22046.2	23153.4	15684.7
45°	20602.5	21005.5	21600.2	23266.8	24730.0	26103.3	25915.5	25336.5	23376.4	24522.7	16349.7
47.5°	17519.5	17504.0	18478.1	20645.6	23896.8	27112.7	27965.6	27558.7	24319.3	24370.2	16212.9
48°	16381.1	16662.8	17668.2	20219.1	23368.6	26964.0	28149.5	27636.9	24158.8	24166.7	16095.5
50°	12108.8	12057.9	13309.9	16439.8	20872.5	25336.5	27374.9	27773.9	24154.9	23137.7	15273.9
52.5°	6396.7	6615.8	7527.4	10336.5	14757.4	20735.6	24147.1	24769.2	23302.1	21455.5	14092.4
55°	2719.1	2457.0	3157.3	4667.5	8302.1	13853.7	17715.2	19100.2	19702.7	18986.7	12327.9
57.5°	970.3	1060.3	1220.7	1756.7	3489.8	7582.2	10563.4	11639.3	13650.3	13931.9	8399.9
60°	622.1	633.8	684.7	805.9	1310.7	2922.5	5011.7	5868.6	6780.2	6999.2	3920.2
62.5°	481.2	485.1	508.6	528.1	622.1	1134.6	1881.9	2230.1	2316.1	1991.4	1028.9
65°	403.0	406.9	414.7	414.7	442.1	532.0	657.3	723.8	704.2	696.4	582.9
67.5°	309.1	316.9	332.5	332.5	348.2	324.7	363.9	387.4	438.2	532.0	496.9
70°	242.6	246.5	258.2	266.1	266.1	234.7	262.1	285.6	320.8	395.2	391.3
72.5°	187.8	195.6	203.4	203.4	191.7	160.4	187.8	207.3	230.8	273.9	266.1
75°	144.8	144.8	148.7	121.3	93.9	82.1	113.5	136.9	172.2	179.9	148.7
77.5°	39.2	43.1	39.2	35.2	39.2	58.6	74.3	86.1	109.5	109.5	97.8
80°	0.0	3.9	11.7	23.5	39.2	54.8	66.5	74.3	86.1	93.9	90.0
82.5°	0.0	3.9	11.7	23.5	35.2	43.1	58.6	62.6	70.4	82.1	82.1
85°	0.0	3.9	7.8	15.7	23.5	27.4	27.4	23.5	23.5	19.6	15.7
87.5°	0.0	0.0	3.9	7.8	7.8	11.7	11.7	11.7	11.7	11.7	11.7
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°	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4	7750.4
2.5°	7789.5	7668.2	7484.4	7194.8	6917.1	6737.1	6565.0	6373.2	6267.6	6259.8	6201.1
5°	7883.4	7609.6	7171.3	6674.5	6142.4	5684.7	5223.0	4921.8	4651.8	4503.1	4475.8
7.5°	7934.3	7578.3	6870.1	6036.8	5129.1	4381.8	3865.4	3485.9	3337.2	3227.7	3223.8
10°	8039.9	7523.5	6420.2	5191.7	4068.9	3313.8	2957.8	2785.6	2703.5	2672.1	2625.2
12.5°	8118.1	7421.7	5958.6	4323.2	3215.9	2746.5	2590.0	2550.9	2554.8	2570.4	2550.9
15°	8227.7	7331.8	5336.5	3548.6	2699.5	2472.6	2472.6	2480.5	2535.2	2543.0	2539.1
17.5°	8219.9	7155.8	4694.9	2922.5	2386.5	2355.3	2367.0	2441.3	2476.6	2488.3	2460.9
20°	8313.8	6991.4	4033.6	2496.1	2210.5	2257.5	2335.7	2355.3	2398.3	2406.1	2374.8
22.5°	8286.4	6580.6	3419.4	2159.6	2077.5	2167.4	2245.7	2269.1	2257.5	2234.0	2230.1
25°	8235.5	6228.5	2856.0	1936.6	1979.7	2077.5	2151.8	2108.8	2085.3	2089.2	2093.1
27.5°	8145.5	5782.5	2390.4	1780.2	1846.6	1991.4	1987.5	1971.8	1995.3	1975.7	1995.3
30°	8129.9	5336.5	2007.1	1639.3	1748.8	1854.5	1862.3	1889.7	1917.1	1881.9	1917.1
32.5°	8153.4	4847.4	1733.2	1553.2	1690.1	1694.0	1780.2	1807.5	1788.0	1709.7	1717.5
35°	8333.3	4471.9	1533.7	1506.3	1596.2	1600.1	1682.4	1647.1	1561.1	1514.1	1541.5
37.5°	8712.8	4158.8	1439.8	1463.2	1471.0	1521.9	1525.8	1455.4	1463.2	1459.3	1474.9
40°	9198.0	3920.2	1373.2	1424.1	1416.3	1451.5	1310.7	1349.7	1385.0	1396.7	1404.5
42.5°	9530.5	3748.1	1330.2	1361.5	1345.8	1283.3	1205.0	1244.1	1271.5	1314.6	1322.4
45°	9679.2	3611.1	1279.3	1251.9	1251.9	1138.5	1107.2	1115.0	1177.6	1224.5	1216.8
47.5°	9436.6	3478.1	1189.4	1107.2	1134.6	1040.7	1005.5	1005.5	1072.0	1130.7	1118.9
48°	9342.8	3423.4	1193.3	1075.9	1095.5	1025.0	989.8	982.0	1056.3	1111.1	1111.1
50°	8877.2	3219.9	1091.6	989.8	950.7	942.9	919.4	927.2	974.2	1025.0	1025.0
52.5°	7969.5	2781.7	923.3	849.0	778.5	825.5	837.3	821.6	845.1	892.0	888.1
55°	6651.0	2136.2	739.5	704.2	649.4	700.3	723.8	704.2	680.7	716.0	716.0
57.5°	4260.5	1150.2	590.8	598.6	543.8	594.7	614.3	567.3	524.2	551.6	547.7
60°	1920.9	688.6	485.1	473.4	438.2	496.9	528.1	473.4	414.7	434.3	453.8
62.5°	719.9	489.1	367.8	359.9	352.1	406.9	422.5	379.5	320.8	332.5	336.5
65°	528.1	430.3	293.4	266.1	281.7	320.8	313.0	270.0	230.8	230.8	238.7
67.5°	449.9	375.6	238.7	207.3	207.3	211.3	195.6	172.2	160.4	168.3	176.0
70°	352.1	297.3	187.8	160.4	144.8	129.1	113.5	109.5	97.8	109.5	105.6
72.5°	226.9	199.5	144.8	121.3	109.5	90.0	74.3	70.4	58.6	54.8	54.8
75°	121.3	121.3	113.5	97.8	86.1	70.4	58.6	47.0	31.3	23.5	23.5
77.5°	86.1	93.9	101.7	93.9	78.2	58.6	47.0	31.3	15.7	7.8	7.8
80°	82.1	93.9	101.7	90.0	78.2	58.6	43.1	23.5	11.7	3.9	3.9
82.5°	74.3	86.1	93.9	82.1	70.4	50.9	39.2	23.5	11.7	3.9	3.9
85°	15.7	19.6	23.5	23.5	27.4	35.2	27.4	19.6	7.8	3.9	3.9
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	7.8	7.8	3.9	3.9	3.9
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)