

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: P647537

Luminaire Tested: **GALN-SA7D-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647537
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-SA7D-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA 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: 31472.7 lumens
Efficiency: N/A
Efficacy: 72.7 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

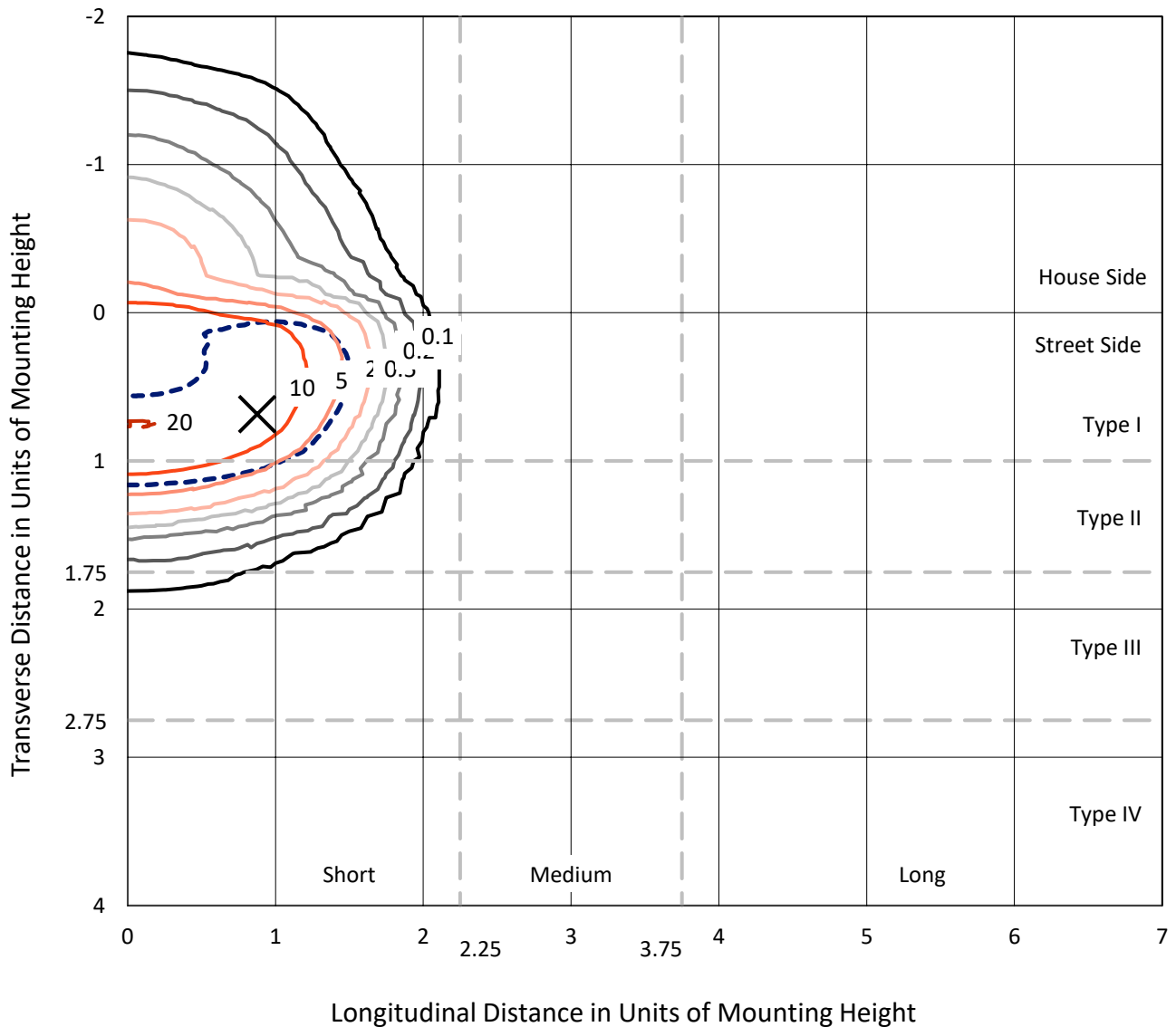
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

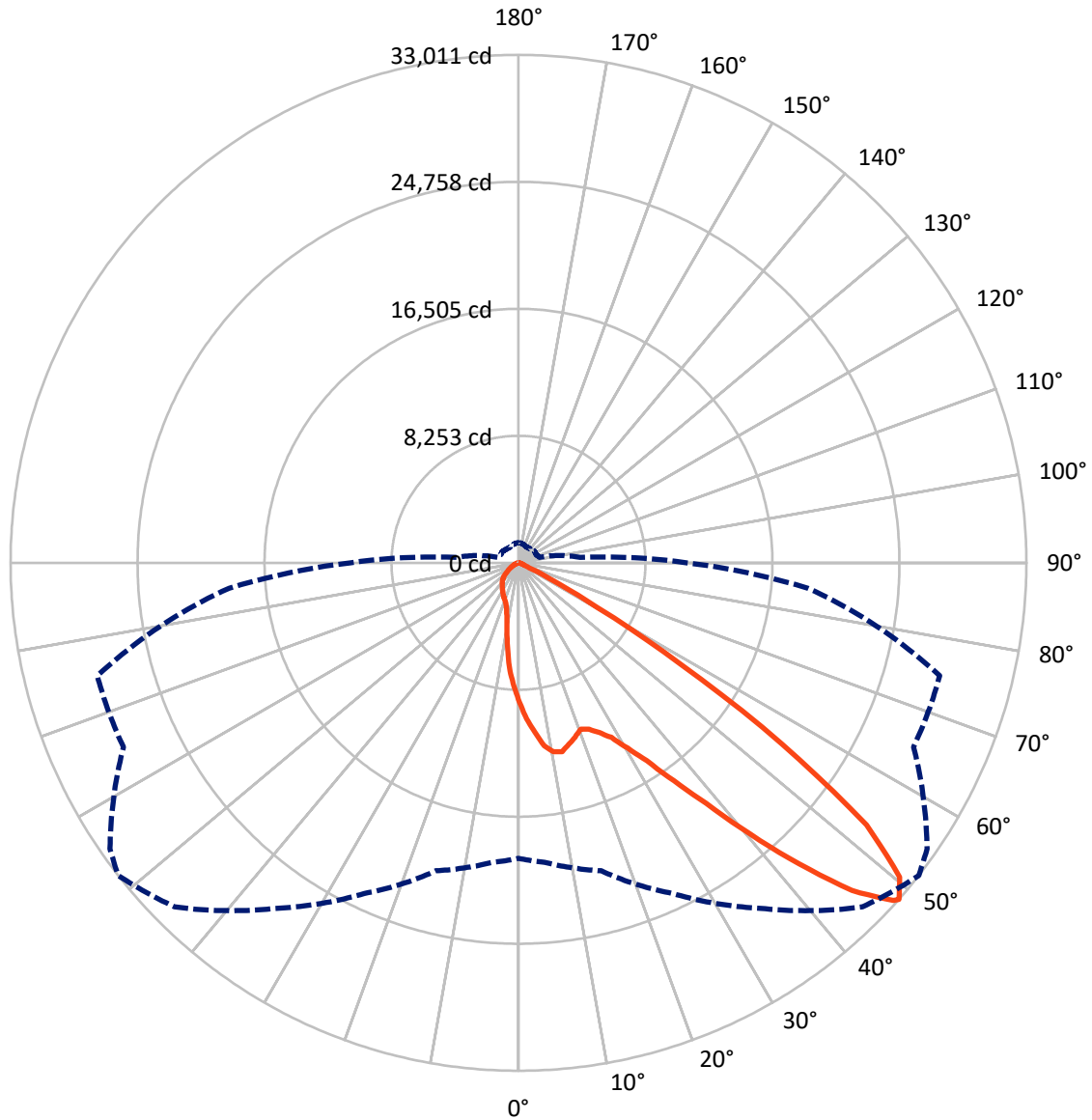
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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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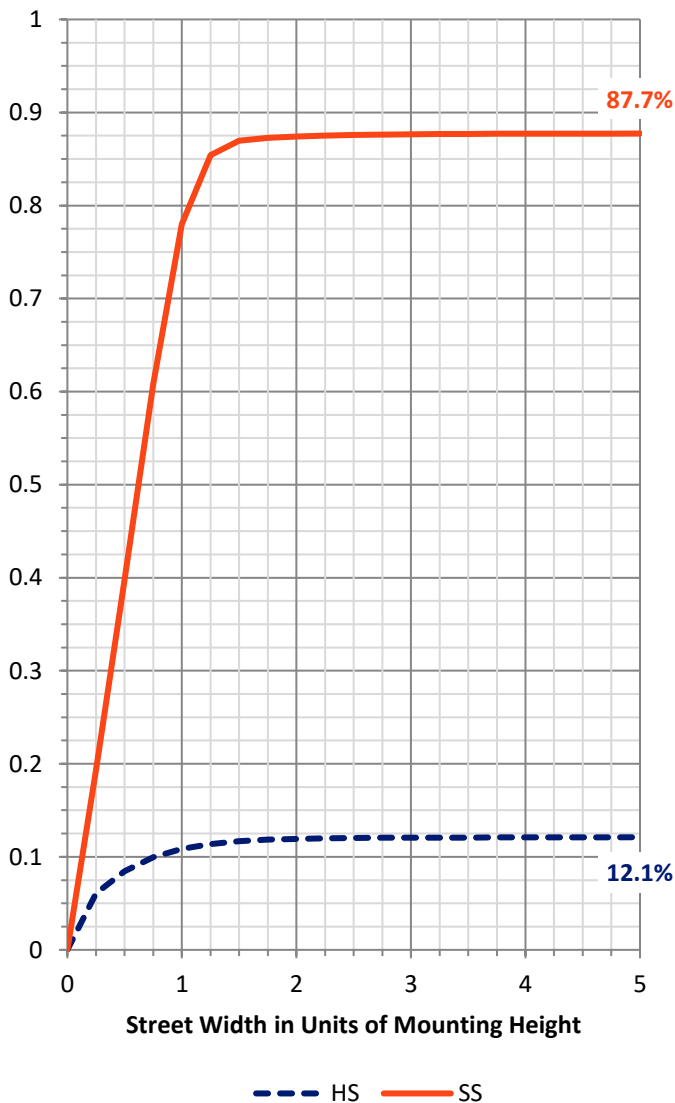
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3832.1	0.0	3832.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	27640.7	0.0	27640.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	31472.7	0.0	31472.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.9	2.6
10°-20°	2174.0	6.9
20°-30°	3711.9	11.8
30°-40°	6835.5	21.7
40°-50°	10615.5	33.7
50°-60°	6388.8	20.3
60°-70°	738.9	2.3
70°-80°	143.0	0.5
80°-90°	33.1	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°	31472.7	100.0
0°-180°	31472.7	100.0

Coefficient of Utilization

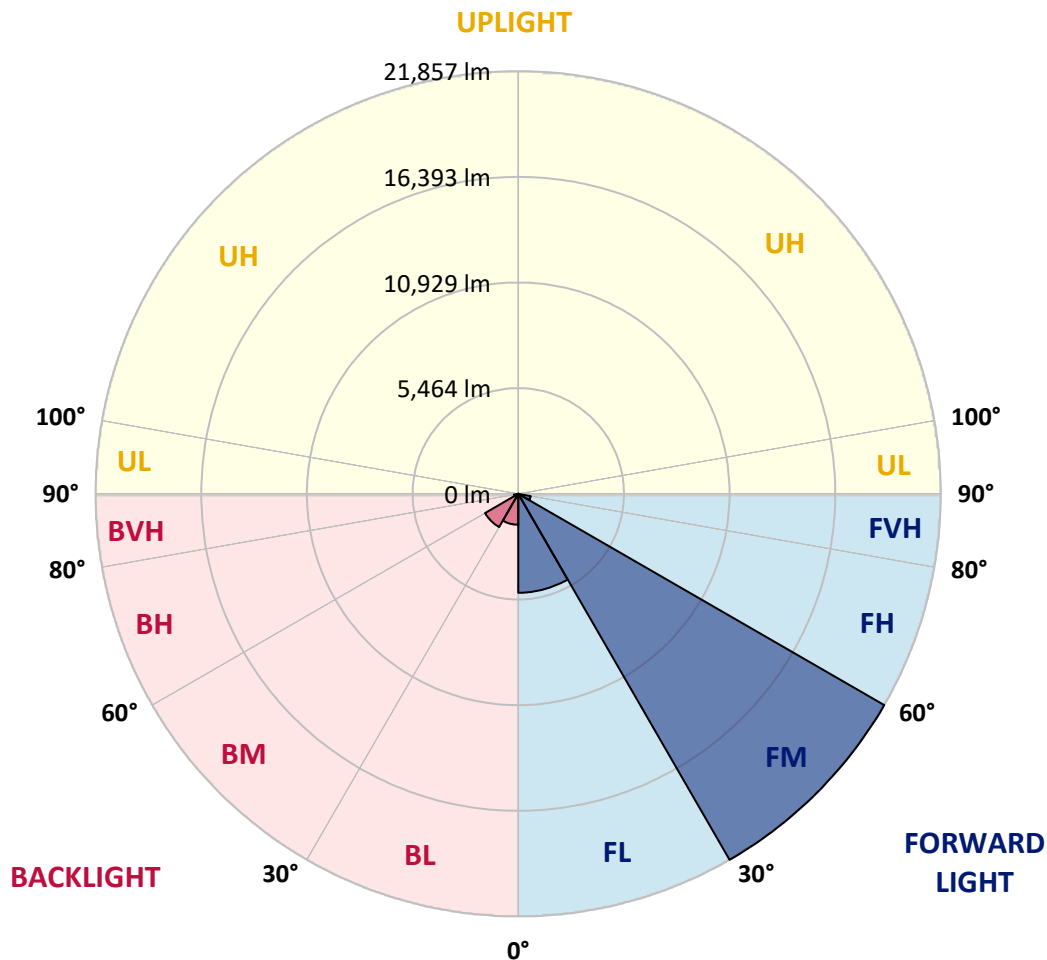


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5117.1	16.3			
FM (30°-60°)	21857.2	69.4			
FH (60°-80°)	650.7	2.1			G0/660
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	1600.8	5.1	B3/2500		
BM (30°-60°)	1982.7	6.3	B2/2500		
BH (60°-80°)	231.3	0.7	B1/500		G1/500
BVH (80°-90°)	17.3	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°	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8
2.5°	11015.7	10763.4	10786.4	10621.2	10524.9	10368.8	10157.8	10116.5	9887.1	9575.2	9258.5
5°	12006.8	11947.1	12025.1	11786.5	11795.7	11538.8	11043.3	11052.4	10524.9	10015.6	9524.6
7.5°	12071.0	11933.3	12011.3	12222.4	12346.3	12300.4	12020.5	11777.3	11277.2	10529.4	9813.7
10°	10809.3	11070.8	11153.4	11502.0	11997.6	12520.6	12488.5	12502.2	12084.7	11107.5	10061.5
12.5°	10052.2	9877.9	10157.8	10368.8	11116.6	12130.6	12594.0	12694.9	12727.0	11667.2	10309.2
15°	9708.2	9708.2	9754.1	9813.7	10355.1	11291.0	12236.2	12529.8	13222.5	12401.3	10699.1
17.5°	9923.8	9914.7	9978.9	9855.0	10056.9	10777.1	11905.8	12240.7	13777.7	13121.6	11006.6
20°	10579.9	10612.0	10570.7	10212.8	10226.6	10768.0	11538.8	12066.4	14153.9	13745.6	11414.9
22.5°	11492.9	11511.3	11277.2	10887.3	10772.6	11038.7	11749.9	12153.6	14456.8	14493.4	11538.8
25°	12548.1	12474.8	12428.9	11878.3	11529.6	11759.0	12226.9	12461.0	14644.8	15135.8	11892.0
27.5°	14011.7	13864.9	13585.0	13094.1	12837.2	12511.4	12846.4	13231.8	15181.7	16035.0	12277.4
30°	16172.6	16044.1	15498.2	14865.0	14190.6	13869.4	13975.0	14186.0	16149.7	17076.4	12786.7
32.5°	19425.5	19154.8	18365.7	17159.1	16241.5	15356.0	15328.5	15553.3	17016.8	18517.1	13392.3
35°	23008.7	22926.2	21765.4	20522.0	18746.5	17379.2	17402.2	17521.5	18677.7	20407.3	14186.0
37.5°	25389.9	25844.1	25105.4	23770.3	22279.2	20324.7	19829.2	19870.5	20957.9	22646.2	15617.5
40°	27229.7	26844.3	26931.4	26619.5	25601.0	24270.4	23173.9	22958.3	23596.0	25123.8	17039.7
42.5°	26426.8	26445.1	26981.9	27720.5	27972.9	27876.6	26757.1	26348.7	25853.3	27151.7	18393.2
45°	24160.3	24632.9	25330.2	27284.7	29000.6	30611.0	30390.8	29711.8	27413.1	28757.5	19173.2
47.5°	20545.0	20526.7	21669.1	24210.8	28023.4	31794.7	32794.9	32317.7	28518.9	28578.6	19012.6
48°	19209.9	19540.2	20719.4	23710.6	27404.0	31620.4	33010.5	32409.5	28330.7	28340.0	18874.9
50°	14199.8	14140.1	15608.3	19278.7	24476.9	29711.8	32102.1	32570.1	28326.2	27133.3	17911.4
52.5°	7501.4	7758.3	8827.3	12121.5	17305.9	24316.3	28317.0	29046.5	27326.0	25160.5	16525.9
55°	3188.6	2881.3	3702.5	5473.5	9735.7	16246.1	20774.4	22398.5	23105.1	22265.5	14456.8
57.5°	1137.9	1243.3	1431.5	2060.0	4092.5	8891.5	12387.5	13649.3	16007.5	16337.8	9850.4
60°	729.5	743.2	802.9	945.2	1537.0	3427.2	5877.2	6881.9	7951.0	8207.9	4597.1
62.5°	564.3	568.9	596.4	619.4	729.5	1330.6	2206.8	2615.1	2716.1	2335.3	1206.6
65°	472.5	477.2	486.3	486.3	518.4	624.0	770.8	848.8	825.8	816.7	683.6
67.5°	362.5	371.6	390.0	390.0	408.3	380.8	426.7	454.2	513.9	624.0	582.7
70°	284.5	289.0	302.8	311.9	311.9	275.3	307.4	334.9	376.2	463.4	458.8
72.5°	220.3	229.4	238.6	238.6	224.8	188.1	220.3	243.2	270.7	321.2	311.9
75°	169.8	169.8	174.4	142.2	110.1	96.3	133.0	160.6	201.9	211.0	174.4
77.5°	45.9	50.5	45.9	41.3	45.9	68.8	87.1	100.9	128.5	128.5	114.7
80°	0.0	4.6	13.8	27.6	45.9	64.2	78.0	87.1	100.9	110.1	105.5
82.5°	0.0	4.6	13.8	27.6	41.3	50.5	68.8	73.4	82.6	96.3	96.3
85°	0.0	4.6	9.2	18.3	27.6	32.1	32.1	27.6	27.6	22.9	18.3
87.5°	0.0	0.0	4.6	9.2	9.2	13.8	13.8	13.8	13.8	13.8	13.8
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°	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8	9088.8
2.5°	9134.6	8992.4	8776.8	8437.3	8111.6	7900.5	7698.6	7473.8	7349.9	7340.8	7272.0
5°	9244.8	8923.6	8409.7	7827.1	7203.1	6666.3	6124.9	5771.6	5455.1	5280.8	5248.7
7.5°	9304.4	8886.9	8056.5	7079.3	6014.8	5138.5	4532.9	4087.9	3913.5	3785.1	3780.5
10°	9428.3	8822.7	7528.9	6088.2	4771.5	3886.0	3468.5	3266.7	3170.3	3133.6	3078.5
12.5°	9520.0	8703.4	6987.5	5069.7	3771.3	3220.8	3037.3	2991.4	2995.9	3014.3	2991.4
15°	9648.5	8597.9	6258.0	4161.3	3165.7	2899.6	2899.6	2908.8	2973.0	2982.2	2977.6
17.5°	9639.4	8391.4	5505.6	3427.2	2798.7	2762.0	2775.7	2862.9	2904.2	2917.9	2885.8
20°	9749.4	8198.7	4730.2	2927.2	2592.2	2647.2	2739.0	2762.0	2812.5	2821.6	2784.9
22.5°	9717.3	7717.0	4009.9	2532.5	2436.2	2541.8	2633.5	2661.0	2647.2	2619.8	2615.1
25°	9657.7	7304.1	3349.2	2271.0	2321.5	2436.2	2523.4	2472.9	2445.4	2450.0	2454.5
27.5°	9552.2	6781.0	2803.2	2087.6	2165.5	2335.3	2330.7	2312.4	2339.8	2316.9	2339.8
30°	9533.8	6258.0	2353.6	1922.3	2050.8	2174.7	2183.9	2216.0	2248.1	2206.8	2248.1
32.5°	9561.4	5684.5	2032.5	1821.4	1982.0	1986.6	2087.6	2119.7	2096.7	2004.9	2014.1
35°	9772.4	5244.1	1798.5	1766.4	1871.9	1876.5	1972.8	1931.5	1830.6	1775.5	1807.6
37.5°	10217.4	4877.0	1688.4	1715.9	1725.1	1784.7	1789.3	1706.7	1715.9	1711.3	1729.6
40°	10786.4	4597.1	1610.4	1670.1	1660.8	1702.2	1537.0	1582.8	1624.2	1637.9	1647.1
42.5°	11176.3	4395.3	1559.9	1596.6	1578.3	1504.8	1413.1	1459.0	1491.1	1541.6	1550.7
45°	11350.7	4234.7	1500.3	1468.1	1468.1	1335.1	1298.4	1307.6	1381.0	1436.0	1426.9
47.5°	11066.2	4078.7	1394.8	1298.4	1330.6	1220.4	1179.1	1179.1	1257.1	1325.9	1312.2
48°	10956.1	4014.5	1399.3	1261.7	1284.7	1202.1	1160.8	1151.6	1238.8	1303.0	1303.0
50°	10410.1	3775.9	1280.0	1160.8	1114.9	1105.7	1078.2	1087.4	1142.4	1202.1	1202.1
52.5°	9345.7	3262.1	1082.7	995.6	913.0	968.1	981.8	963.5	991.0	1046.1	1041.5
55°	7799.5	2505.1	867.1	825.8	761.6	821.2	848.8	825.8	798.3	839.6	839.6
57.5°	4996.3	1348.9	692.8	702.0	637.8	697.3	720.3	665.2	614.8	646.9	642.3
60°	2252.7	807.5	568.9	555.1	513.9	582.7	619.4	555.1	486.3	509.3	532.2
62.5°	844.2	573.5	431.3	422.1	413.0	477.2	495.5	445.1	376.2	390.0	394.6
65°	619.4	504.6	344.1	311.9	330.3	376.2	367.1	316.6	270.7	270.7	279.8
67.5°	527.6	440.4	279.8	243.2	243.2	247.7	229.4	201.9	188.1	197.3	206.5
70°	413.0	348.7	220.3	188.1	169.8	151.4	133.0	128.5	114.7	128.5	123.9
72.5°	266.1	234.0	169.8	142.2	128.5	105.5	87.1	82.6	68.8	64.2	64.2
75°	142.2	142.2	133.0	114.7	100.9	82.6	68.8	55.0	36.7	27.6	27.6
77.5°	100.9	110.1	119.3	110.1	91.8	68.8	55.0	36.7	18.3	9.2	9.2
80°	96.3	110.1	119.3	105.5	91.8	68.8	50.5	27.6	13.8	4.6	4.6
82.5°	87.1	100.9	110.1	96.3	82.6	59.7	45.9	27.6	13.8	4.6	4.6
85°	18.3	22.9	27.6	27.6	32.1	41.3	32.1	22.9	9.2	4.6	4.6
87.5°	13.8	13.8	13.8	13.8	13.8	13.8	9.2	9.2	4.6	4.6	4.6
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)