

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: P530828

Luminaire Tested: **GALN-SA6A-750-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-750-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24470 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

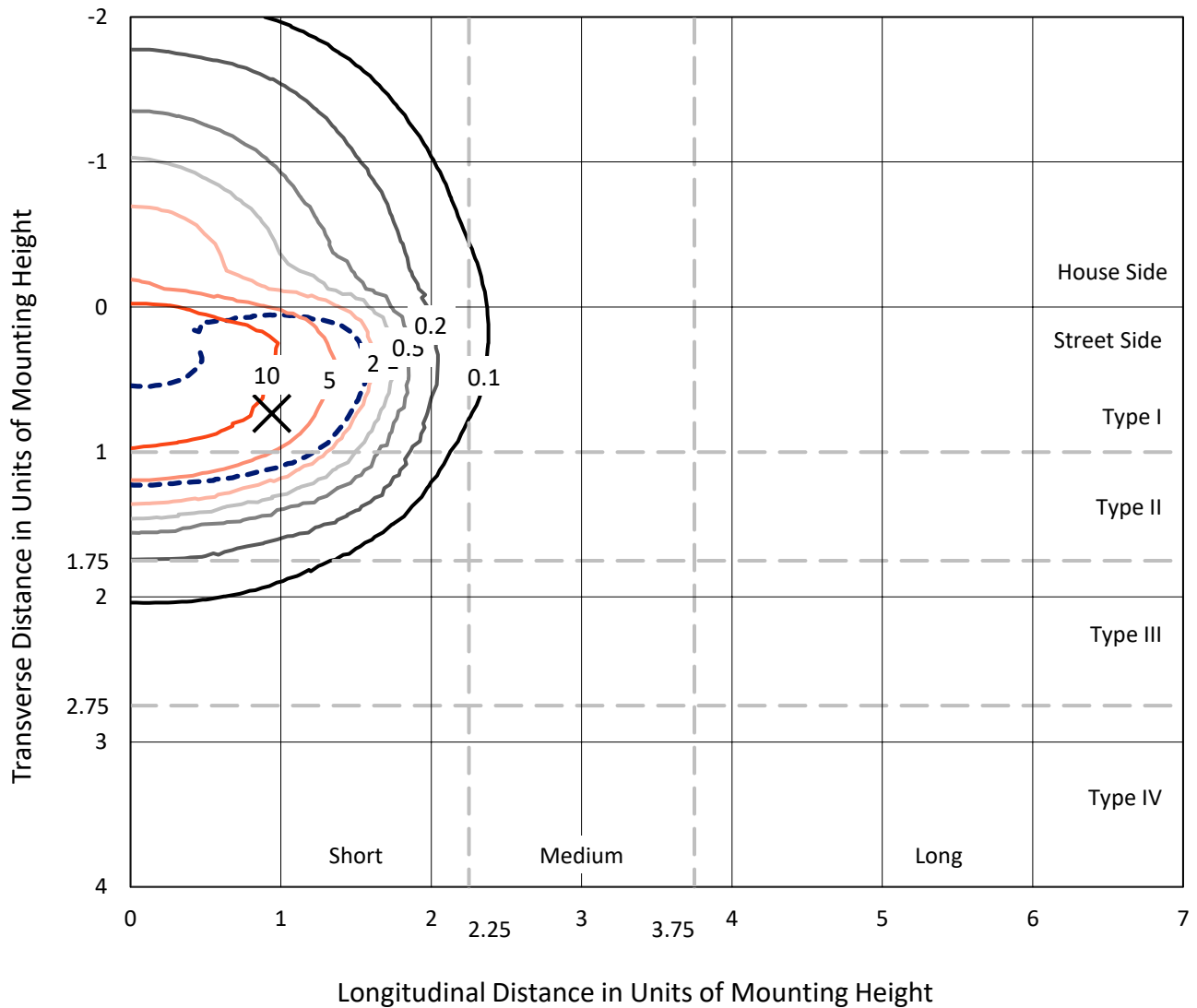
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

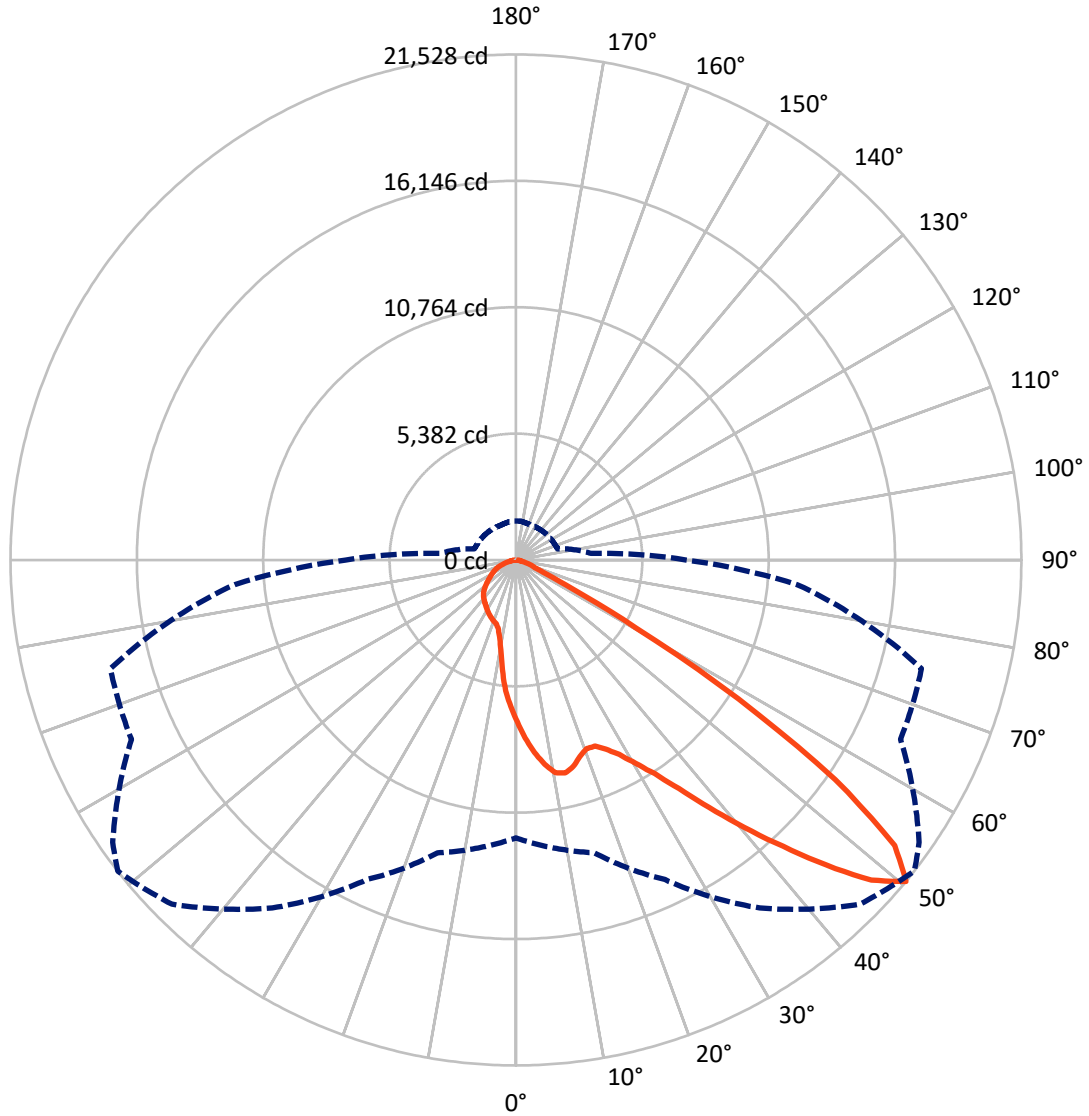
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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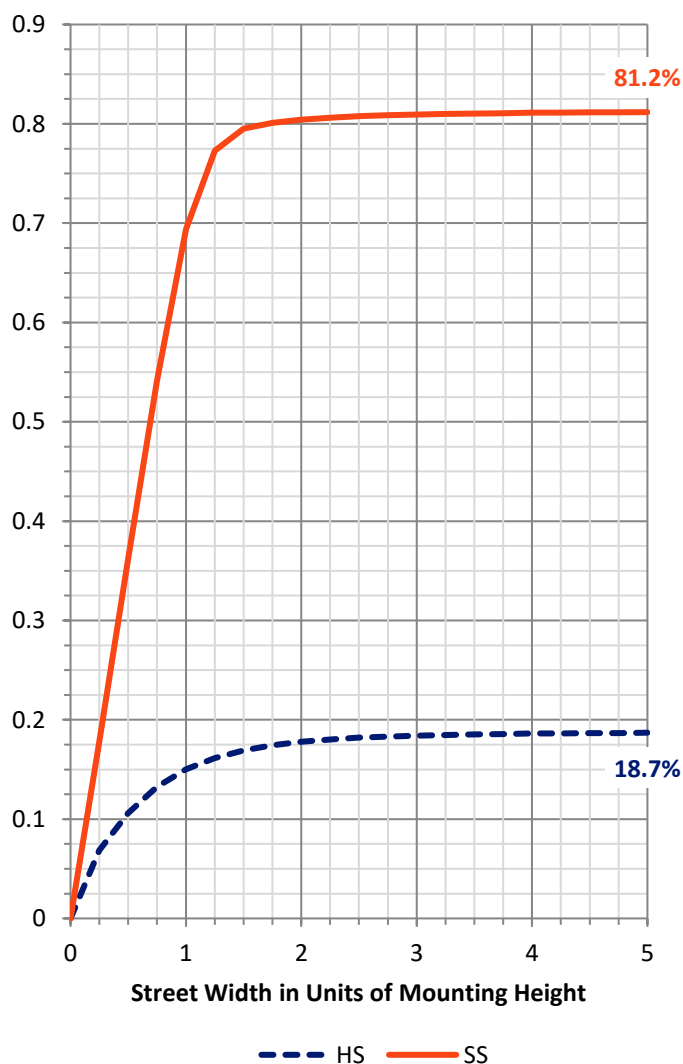
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4599.8	0.0	4599.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19870.2	0.0	19870.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	24470.0	0.0	24470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.8	2.6
10°-20°	1704.0	7.0
20°-30°	2870.3	11.7
30°-40°	4816.6	19.7
40°-50°	7368.2	30.1
50°-60°	5372.0	22.0
60°-70°	1195.5	4.9
70°-80°	431.2	1.8
80°-90°	76.3	0.3
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°	24470.0	100.0
0°-180°	24470.0	100.0

Coefficient of Utilization



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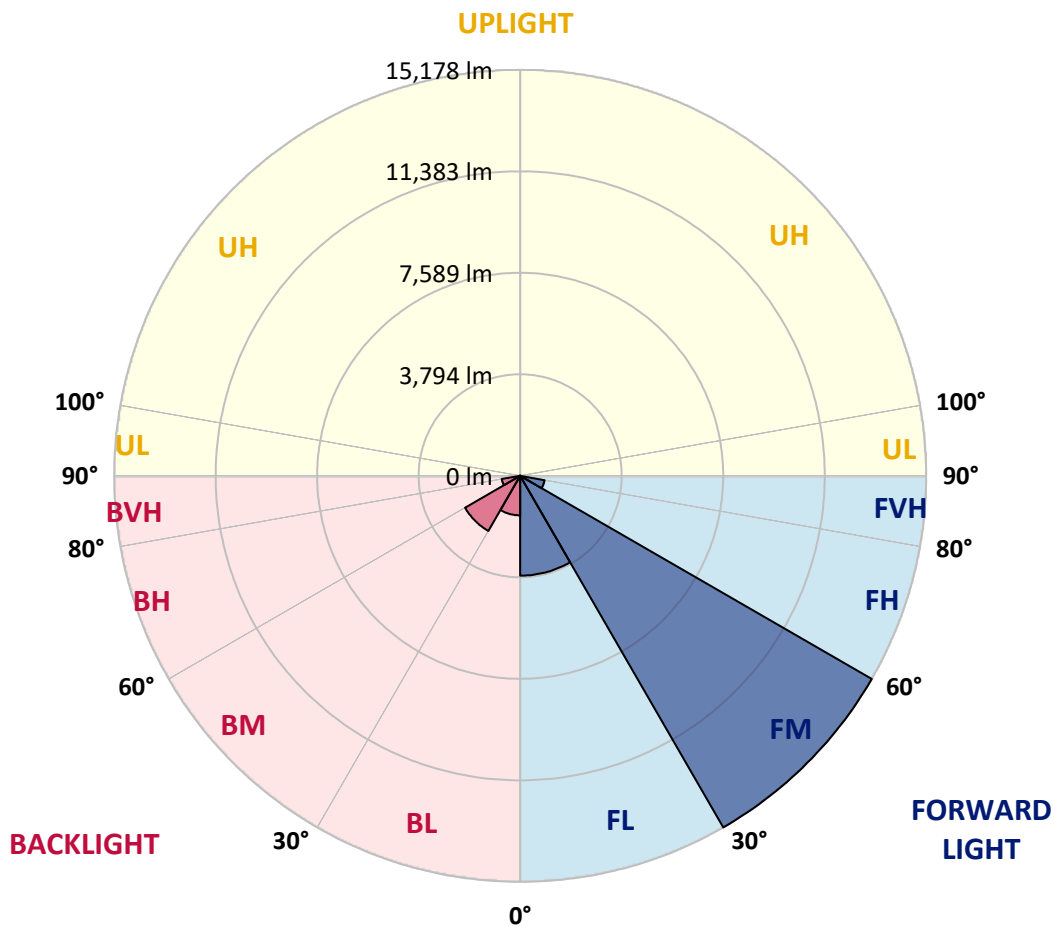
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3732.5	15.3			
FM (30°-60°)	15177.5	62.0			
FH (60°-80°)	926.0	3.8			G1/1800
FVH (80°-90°)	34.2	0.1			G1/100
BL (0°-30°)	1477.5	6.0	B3/2500		
BM (30°-60°)	2379.3	9.7	B2/2500		
BH (60°-80°)	700.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	42.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7
2.5°	8121.5	7965.2	7982.9	7870.9	7749.9	7714.6	7590.7	7472.7	7384.3	7195.5	7021.5
5°	8876.5	8829.3	8758.5	8670.0	8578.6	8354.5	8227.7	8080.2	7755.8	7463.9	7174.9
7.5°	8985.6	8976.7	9015.1	9015.1	9047.5	8962.0	8782.1	8678.9	8333.8	7859.1	7322.3
10°	8218.8	8245.4	8431.2	8673.0	9009.2	9242.1	9212.6	9186.1	8808.6	8159.9	7496.3
12.5°	7608.4	7549.4	7658.5	7865.0	8369.2	8932.5	9312.9	9315.9	9218.5	8640.5	7623.1
15°	7263.4	7304.6	7334.1	7431.5	7811.9	8463.6	9133.0	9330.6	9758.2	8979.7	7823.7
17.5°	7484.5	7345.9	7340.0	7363.6	7558.3	8047.8	8799.8	9138.9	10053.1	9416.1	8071.4
20°	7773.5	7770.6	7688.0	7658.5	7655.6	8092.0	8581.6	9041.6	10209.4	9982.3	8322.0
22.5°	8280.8	8280.8	8145.1	8080.2	7941.6	8298.5	8611.1	8923.6	10468.9	10371.6	8443.0
25°	9130.1	8991.5	8758.5	8599.3	8519.6	8646.4	8923.6	9203.8	10696.0	10784.5	8693.6
27.5°	9914.5	9696.3	9581.3	9307.0	9200.8	9127.1	9380.7	9663.8	10961.4	11427.3	8829.3
30°	10805.1	10766.8	10560.3	10206.5	9944.0	9808.3	10041.3	10321.5	11448.0	12085.0	9141.9
32.5°	12397.6	12049.6	11769.4	11335.9	10908.3	10619.3	10849.3	11035.1	12256.0	12772.1	9484.0
35°	14116.8	14004.8	13521.1	12739.6	12085.0	11825.4	11961.1	12099.7	13196.7	13821.9	10059.0
37.5°	15806.6	15653.2	15255.1	14597.5	13801.3	13273.4	13370.7	13532.9	14252.5	15237.4	10760.9
40°	17021.6	16832.8	16632.3	16535.0	15744.7	15022.2	14966.1	15007.4	15679.8	16564.5	11539.4
42.5°	17110.0	17343.0	17404.9	17797.2	17611.4	17018.6	16673.6	16682.4	17042.2	17876.8	12326.8
45°	16924.3	16709.0	17166.1	18236.6	18849.9	19127.1	18546.2	18472.5	17885.6	18637.6	12719.0
47.5°	14975.0	15034.0	15806.6	17499.3	19271.6	20510.2	20374.6	20129.8	18336.8	18611.1	12657.1
50°	11837.2	12194.1	12910.7	15019.2	18092.1	20728.4	21527.6	20961.4	18068.5	17879.7	12026.0
52.5°	7882.6	8030.1	8501.9	11223.9	14547.4	18528.5	20200.6	20330.3	17820.7	16921.3	11226.8
55°	3509.3	3497.5	4161.0	5862.6	9127.1	14099.1	16505.5	17295.8	16868.2	15945.2	10448.3
57.5°	1486.3	1536.4	1807.7	2533.2	4488.4	8507.8	11182.6	11875.6	12972.6	13093.5	8015.4
60°	1005.6	1011.5	1085.2	1268.1	1878.5	3995.9	5865.5	6697.2	7481.6	7428.5	4252.4
62.5°	790.3	811.0	867.0	940.7	1114.7	1813.6	2624.6	3087.6	3137.7	2639.3	1613.1
65°	675.3	678.3	734.3	796.2	872.9	1055.7	1265.1	1288.7	1303.5	1256.3	1185.5
67.5°	557.4	563.3	607.5	678.3	749.0	808.0	867.0	896.5	964.3	1097.0	1079.3
70°	442.3	451.2	489.5	548.5	613.4	648.8	722.5	749.0	811.0	914.2	955.5
72.5°	336.2	339.1	371.6	412.9	471.8	507.2	569.2	598.6	639.9	728.4	766.7
75°	241.8	250.7	274.3	294.9	303.7	327.3	386.3	418.8	477.7	516.1	519.0
77.5°	126.8	132.7	138.6	138.6	168.1	212.3	250.7	268.4	309.6	339.1	324.4
80°	50.1	53.1	67.8	91.4	118.0	153.3	179.9	188.7	224.1	241.8	250.7
82.5°	29.5	32.4	44.2	64.9	85.5	109.1	129.8	138.6	162.2	182.8	188.7
85°	14.7	17.7	26.5	41.3	56.0	67.8	64.9	61.9	61.9	59.0	61.9
87.5°	5.9	5.9	8.8	8.8	8.8	11.8	14.7	14.7	14.7	17.7	17.7
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°	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7	6897.7
2.5°	6906.5	6788.6	6679.5	6478.9	6260.7	6198.8	5945.2	5853.7	5788.9	5712.2	5688.6
5°	6941.9	6785.6	6434.7	6030.7	5709.2	5296.4	5025.1	4733.1	4520.8	4467.7	4453.0
7.5°	7015.6	6747.3	6142.7	5532.3	4874.7	4314.4	3886.8	3656.7	3453.3	3441.5	3420.8
10°	7098.2	6632.3	5824.3	4865.8	4025.4	3506.3	3249.8	3149.5	3099.4	3087.6	3081.7
12.5°	7166.0	6608.7	5467.4	4217.1	3423.8	3111.2	3034.5	3025.7	3046.3	3052.2	3064.0
15°	7195.5	6514.3	5036.9	3636.1	3049.3	2934.2	2966.7	3002.1	3016.8	3055.2	3025.7
17.5°	7251.6	6393.4	4506.1	3176.1	2839.9	2860.5	2916.6	2957.8	2981.4	3008.0	2969.6
20°	7281.1	6284.3	4007.7	2901.8	2766.2	2804.5	2881.2	2913.6	2943.1	2954.9	2910.7
22.5°	7254.5	6060.2	3568.3	2680.6	2695.4	2745.5	2813.3	2848.7	2831.0	2783.8	2757.3
25°	7183.7	5744.6	3111.2	2539.1	2595.1	2683.6	2736.7	2710.1	2677.7	2651.1	2642.3
27.5°	7180.8	5358.3	2780.9	2409.3	2509.6	2630.5	2612.8	2589.2	2604.0	2583.3	2559.7
30°	7195.5	4983.8	2509.6	2335.6	2447.7	2506.6	2527.3	2503.7	2521.4	2483.0	2494.8
32.5°	7118.9	4618.1	2332.7	2250.1	2373.9	2371.0	2438.8	2456.5	2415.2	2335.6	2347.4
35°	7151.3	4323.2	2182.3	2211.7	2291.4	2291.4	2344.4	2323.8	2214.7	2167.5	2179.3
37.5°	7375.4	4034.2	2108.5	2158.7	2211.7	2235.3	2217.6	2129.2	2102.6	2102.6	2108.5
40°	7587.8	3786.5	2064.3	2146.9	2138.0	2152.8	2023.0	2031.9	2031.9	2034.8	2020.1
42.5°	7776.5	3618.4	2028.9	2076.1	2090.8	2014.2	1934.5	1925.7	1946.3	1943.4	1931.6
45°	7844.3	3479.8	1978.8	1996.5	2008.3	1881.5	1843.1	1825.4	1849.0	1857.9	1869.7
47.5°	7584.8	3364.8	1922.7	1887.4	1863.8	1781.2	1731.1	1698.6	1728.1	1778.2	1790.0
50°	7251.6	3214.4	1834.3	1766.4	1716.3	1680.9	1645.5	1613.1	1633.7	1669.1	1660.3
52.5°	6759.1	2978.5	1722.2	1651.4	1565.9	1574.8	1542.3	1524.6	1536.4	1536.4	1527.6
55°	6057.2	2447.7	1533.5	1483.3	1412.6	1436.2	1442.1	1418.5	1394.9	1415.5	1397.8
57.5°	4134.5	1728.1	1368.3	1368.3	1297.6	1330.0	1327.0	1271.0	1215.0	1220.9	1209.1
60°	2391.6	1377.2	1262.2	1250.4	1176.6	1203.2	1209.1	1170.7	1085.2	1091.1	1079.3
62.5°	1359.5	1176.6	1102.9	1085.2	1070.5	1094.1	1094.1	1043.9	970.2	976.1	964.3
65°	1156.0	1091.1	985.0	982.0	976.1	982.0	958.4	905.3	840.5	813.9	816.9
67.5°	1049.8	1008.6	905.3	878.8	861.1	858.2	813.9	763.8	734.3	710.7	707.8
70°	920.1	887.6	811.0	775.6	757.9	716.6	672.4	639.9	598.6	586.8	598.6
72.5°	728.4	725.5	696.0	657.6	619.3	586.8	548.5	504.3	465.9	457.1	436.5
75°	504.3	510.2	516.1	510.2	477.7	436.5	392.2	356.8	309.6	283.1	277.2
77.5°	330.3	339.1	348.0	336.2	315.5	277.2	247.7	203.5	168.1	147.4	144.5
80°	241.8	253.6	259.5	250.7	227.1	197.6	165.1	129.8	103.2	85.5	85.5
82.5°	185.8	197.6	203.5	188.7	165.1	141.6	118.0	91.4	70.8	56.0	53.1
85°	64.9	61.9	73.7	76.7	91.4	85.5	70.8	53.1	41.3	29.5	26.5
87.5°	17.7	17.7	20.6	20.6	17.7	14.7	14.7	14.7	11.8	8.8	8.8
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)