

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: P529586

Luminaire Tested: **GALN-SA4D-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23578 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

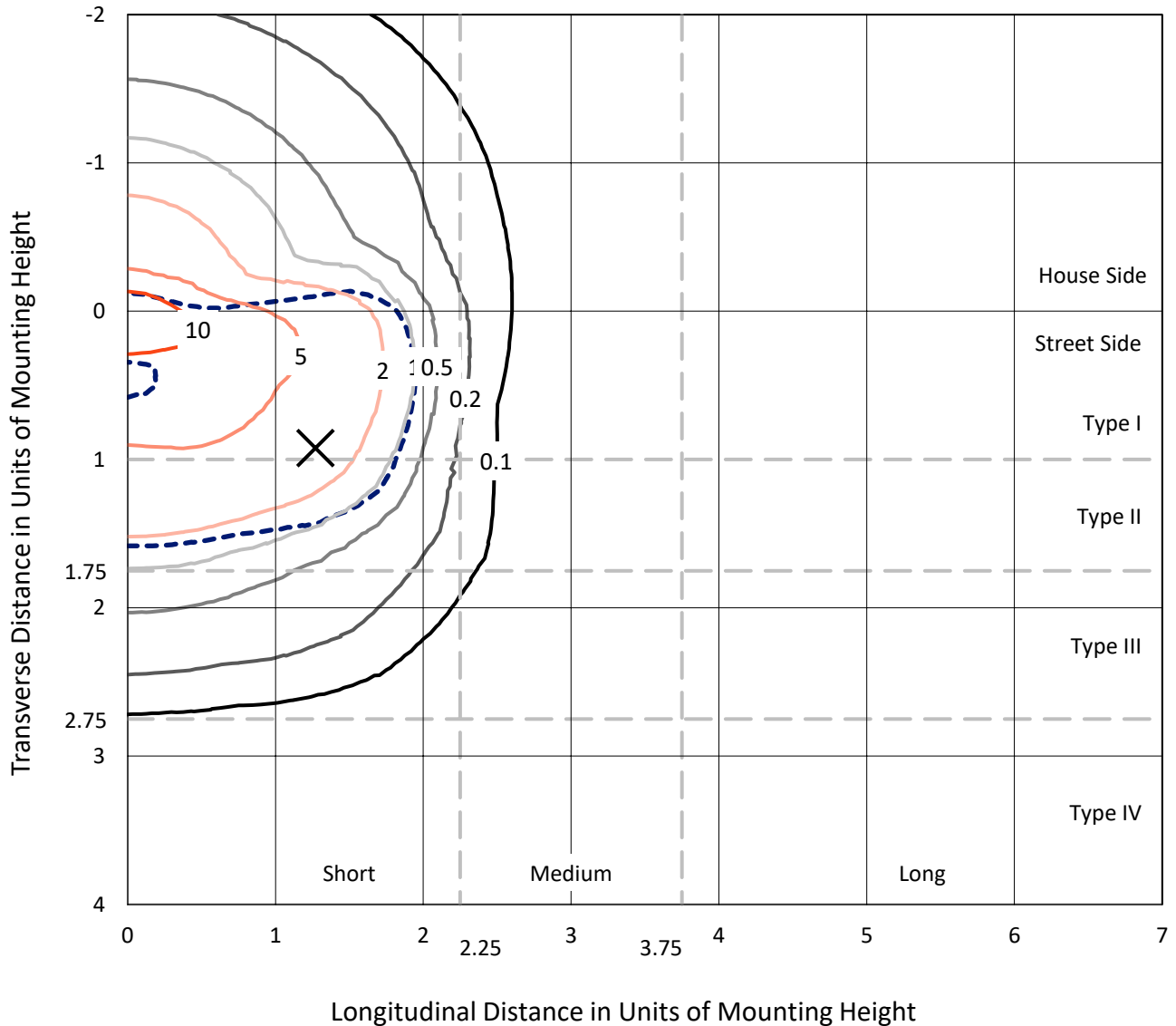
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

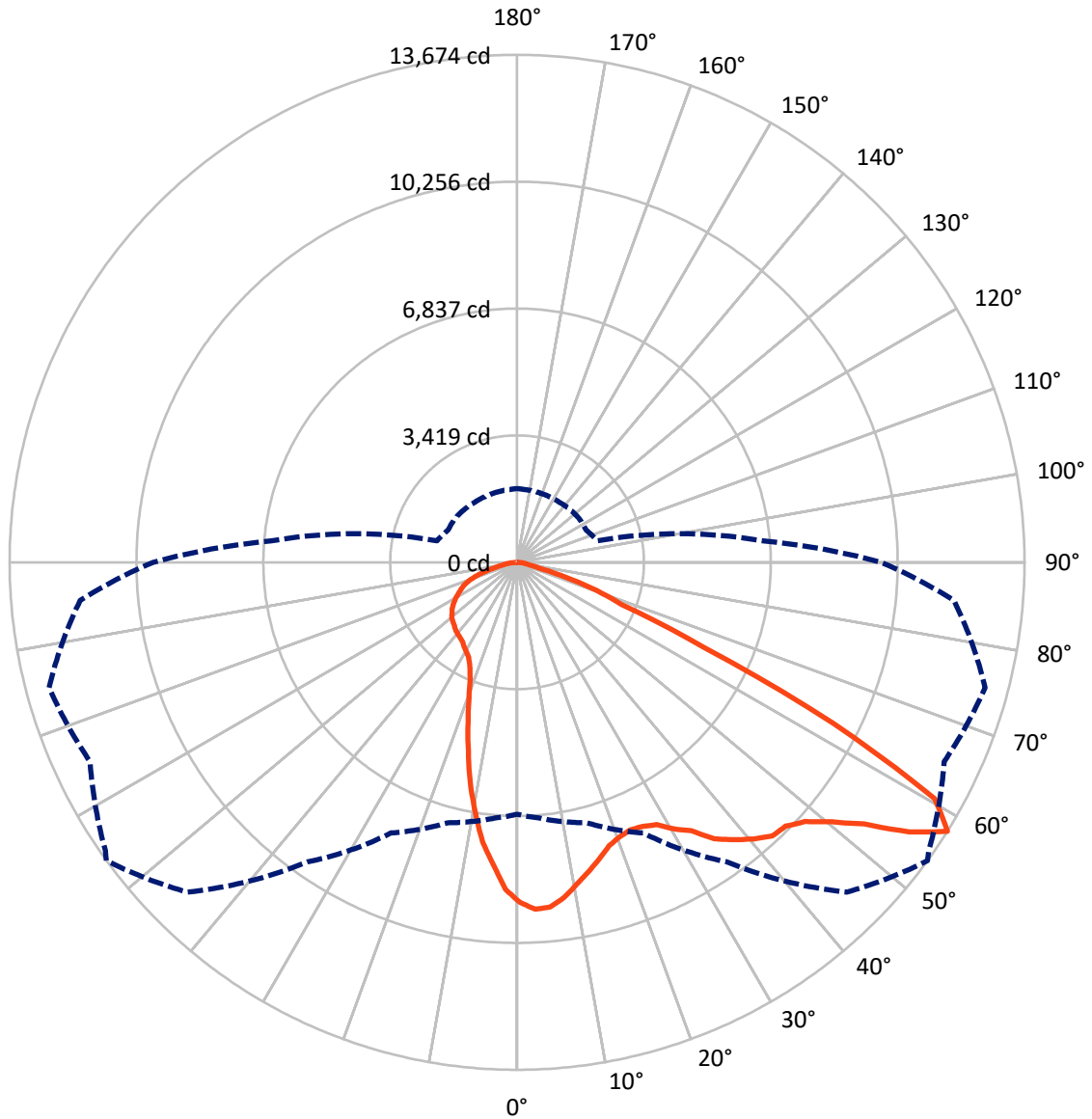
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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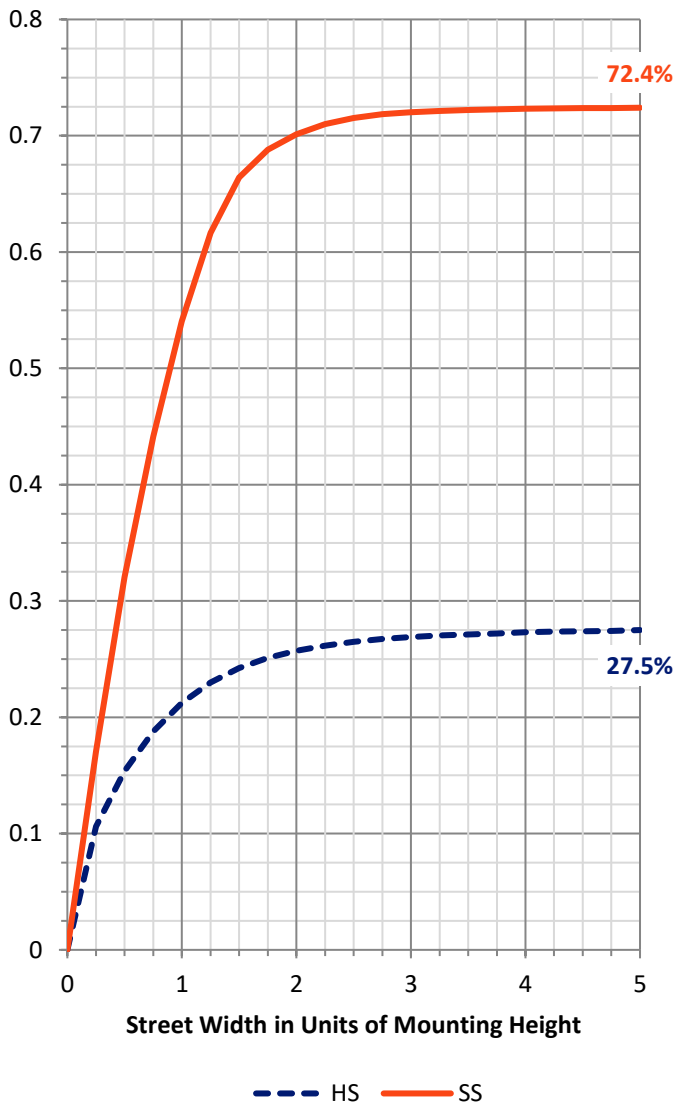
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6523.0	0.0	6523.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17055.0	0.0	17055.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	23578.0	0.0	23578.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.4	3.4
10°-20°	1829.9	7.8
20°-30°	2571.1	10.9
30°-40°	3594.4	15.2
40°-50°	4866.2	20.6
50°-60°	5927.2	25.1
60°-70°	3087.1	13.1
70°-80°	791.0	3.4
80°-90°	120.7	0.5
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°	23578.0	100.0
0°-180°	23578.0	100.0



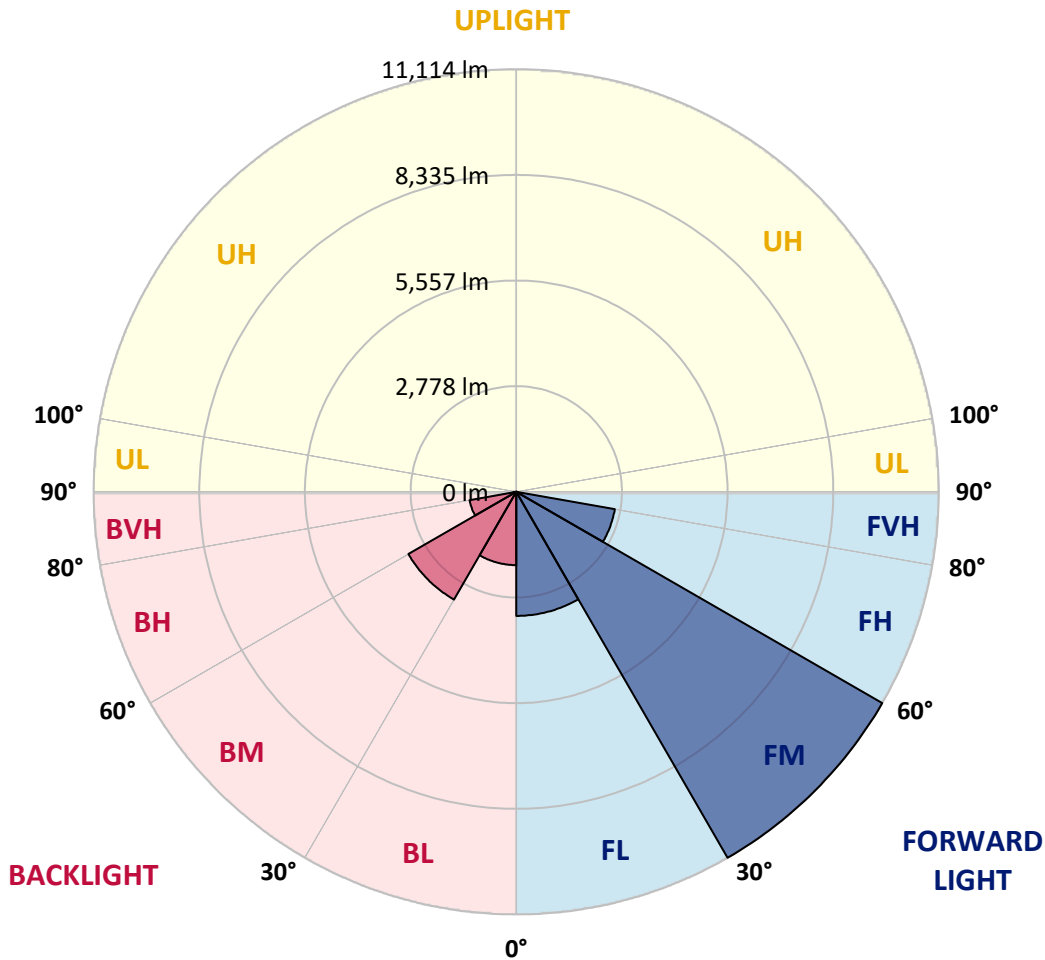
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3263.5	13.8			
FM (30°-60°)	11113.9	47.1			
FH (60°-80°)	2632.0	11.2			G2/5000
FVH (80°-90°)	45.6	0.2			G1/100
BL (0°-30°)	1927.9	8.2	B3/2500		
BM (30°-60°)	3273.8	13.9	B3/5000		
BH (60°-80°)	1246.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	75.1	0.3			G1/100
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°	54°	55°	65°	75°	85°
0°	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5
2.5°	9425.1	9388.8	9394.8	9443.3	9382.7	9358.5	9358.5	9240.3	9249.4	9167.5	9146.3
5°	9206.9	9122.1	9179.7	9252.4	9264.5	9288.8	9328.2	9297.8	9213.0	9125.1	8982.7
7.5°	8637.2	8712.9	8734.2	8785.7	8894.8	8994.8	9119.0	9034.2	9031.2	8943.3	8858.4
10°	8137.1	8091.7	8206.8	8282.6	8464.4	8631.1	8822.0	8813.0	8858.4	8758.4	8612.9
12.5°	7640.1	7603.7	7658.3	7831.0	8085.6	8328.1	8555.4	8470.5	8712.9	8694.8	8382.6
15°	7112.8	7140.1	7218.9	7379.5	7712.8	8003.8	8291.7	8294.7	8509.9	8582.6	8164.4
17.5°	6743.1	6712.8	6812.8	7052.2	7349.2	7697.7	8025.0	8091.7	8422.0	8464.4	8097.7
20°	6467.3	6509.7	6640.0	6761.2	7103.7	7525.0	7894.7	7918.9	8403.8	8519.0	7991.7
22.5°	6400.6	6376.4	6418.8	6615.8	6897.6	7355.2	7825.0	7915.9	8400.8	8500.8	7791.6
25°	6330.9	6409.7	6406.7	6603.7	6809.7	7218.9	7882.6	7982.6	8561.4	8594.7	7818.9
27.5°	6488.5	6479.4	6564.3	6579.4	6834.0	7255.2	8003.8	8079.5	8828.1	8800.8	7840.1
30°	6646.1	6600.6	6652.1	6830.9	6949.1	7464.3	8337.1	8331.1	9173.6	9155.4	7906.8
32.5°	6840.0	6818.8	6852.2	7009.8	7209.8	7743.2	8619.0	8797.8	9525.1	9640.3	8137.1
35°	6876.4	6964.3	7043.1	7255.2	7540.1	8194.7	9149.3	9297.8	9931.2	10291.9	8576.6
37.5°	7106.7	7140.1	7324.9	7700.7	7961.4	8797.8	9485.7	9579.7	10301.0	10710.1	9040.2
40°	7352.2	7391.6	7670.4	8064.4	8422.0	9191.8	9800.9	9831.2	10419.2	11031.3	9343.3
42.5°	7685.6	7721.9	7997.7	8491.7	8970.5	9528.2	10079.7	10113.1	10410.1	11401.1	9825.2
45°	8031.1	8118.9	8443.2	9003.9	9434.2	9922.1	10143.4	10279.8	10494.9	11731.4	10216.1
47.5°	8516.0	8597.8	8864.5	9413.0	9916.1	10267.6	10437.3	10570.7	10698.0	12019.3	10467.7
50°	9031.2	9046.3	9370.6	9867.6	10237.3	10658.6	10985.9	11031.3	10964.7	12352.7	10895.0
52.5°	9410.0	9458.5	9710.0	10194.9	10746.5	11264.7	11713.2	11761.7	11631.4	12476.9	11040.4
55°	8782.6	8755.4	9164.5	9810.0	11088.9	12167.8	12819.4	12855.8	12116.3	12861.8	11516.2
57.5°	6788.5	6918.8	7267.4	8046.2	9852.4	12567.8	13674.0	13543.7	12698.2	13055.8	11819.3
60°	4933.8	4903.5	5136.8	5658.1	7424.9	10831.3	12928.5	13061.8	12222.4	11767.8	9746.4
62.5°	4018.6	3976.1	3994.3	4012.5	4791.4	7188.6	9570.6	9567.6	9413.0	8458.4	6573.3
65°	3212.4	3312.4	3321.5	3457.9	3557.9	4294.3	5546.0	5843.0	5088.4	4173.1	3027.6
67.5°	2421.4	2385.1	2506.3	2991.2	3179.1	3100.3	3027.6	3060.9	2176.0	1569.8	1478.9
70°	1427.4	1412.3	1557.7	2085.0	2618.4	2463.9	2282.0	2285.1	1494.1	1097.1	1221.3
72.5°	781.9	778.9	809.2	1057.7	1488.0	1545.6	1369.8	1412.3	891.0	888.0	954.6
75°	436.4	427.3	418.2	466.7	536.4	566.7	578.8	584.9	612.2	684.9	712.2
77.5°	160.6	154.6	154.6	178.8	227.3	284.9	360.6	366.7	433.4	497.0	524.3
80°	54.6	60.6	81.8	112.1	151.5	203.0	245.5	251.5	306.1	348.5	357.6
82.5°	33.3	36.4	54.6	78.8	109.1	142.4	181.8	184.9	227.3	254.6	266.7
85°	15.2	18.2	30.3	48.5	69.7	93.9	97.0	97.0	93.9	97.0	90.9
87.5°	0.0	0.0	6.1	6.1	6.1	9.1	12.1	9.1	15.2	18.2	18.2
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°	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5	9164.5
2.5°	9082.7	9049.3	8946.3	8855.4	8828.1	8706.9	8528.1	8549.3	8419.0	8479.6	8415.9
5°	8958.4	8846.3	8582.6	8470.5	8176.5	8043.2	7952.3	7725.0	7618.9	7597.7	7506.8
7.5°	8640.2	8570.5	8240.2	7937.1	7625.0	7358.3	7015.8	6782.5	6615.8	6570.3	6437.0
10°	8388.7	8234.1	7776.5	7315.8	6870.3	6406.7	5961.2	5612.6	5442.9	5245.9	5179.3
12.5°	8140.2	7906.8	7288.6	6697.6	6121.8	5536.9	4997.4	4573.2	4203.4	4115.5	4085.2
15°	7985.6	7579.5	6852.2	6140.0	5321.7	4558.0	4018.6	3739.7	3512.5	3418.5	3485.2
17.5°	7782.6	7309.8	6433.9	5485.4	4585.3	3882.2	3430.6	3257.9	3176.1	3185.1	3157.9
20°	7528.0	7055.2	5885.4	4891.4	3927.6	3367.0	3109.4	3045.7	3057.9	3079.1	3070.0
22.5°	7346.1	6746.1	5488.4	4285.3	3394.3	3082.1	2976.0	2930.6	2970.0	2988.2	2973.0
25°	7206.7	6482.4	5006.5	3748.8	3085.1	2921.5	2873.0	2870.0	2930.6	2954.8	2939.7
27.5°	7079.5	6237.0	4527.7	3339.7	2879.1	2797.2	2782.1	2818.4	2857.8	2882.1	2903.3
30°	7003.7	6049.1	4079.2	2997.3	2776.0	2736.6	2709.3	2742.7	2763.9	2788.1	2776.0
32.5°	7076.4	5915.7	3645.8	2803.3	2691.2	2651.8	2688.1	2666.9	2703.3	2724.5	2691.2
35°	7303.7	5797.5	3336.7	2700.3	2594.2	2609.3	2615.4	2606.3	2621.5	2603.3	2642.7
37.5°	7528.0	5755.1	3051.8	2612.4	2548.7	2548.7	2542.7	2524.5	2554.8	2548.7	2566.9
40°	7812.9	5782.4	2809.4	2518.4	2506.3	2500.2	2476.0	2473.0	2460.8	2463.9	2469.9
42.5°	8061.4	5843.0	2669.9	2457.8	2466.9	2479.0	2433.6	2397.2	2412.3	2382.0	2382.0
45°	8325.0	5897.5	2545.7	2415.4	2406.3	2403.3	2366.9	2345.7	2333.6	2336.6	2363.9
47.5°	8740.2	5976.3	2451.7	2357.8	2363.9	2318.4	2309.3	2282.0	2294.2	2312.3	2315.4
50°	9034.2	6143.0	2379.0	2291.1	2312.3	2282.0	2227.5	2215.4	2215.4	2245.7	2239.6
52.5°	9240.3	6376.4	2309.3	2218.4	2227.5	2203.2	2185.1	2157.8	2139.6	2182.0	2203.2
55°	9870.6	6764.3	2291.1	2157.8	2154.7	2130.5	2097.2	2069.9	2060.8	2066.9	2109.3
57.5°	9810.0	6643.0	2233.5	2051.7	2045.6	2012.3	1979.0	1969.9	1966.9	1972.9	1985.0
60°	7964.4	4906.5	1994.1	1930.5	1921.4	1915.3	1882.0	1845.6	1827.4	1845.6	1830.5
62.5°	5270.2	3285.2	1757.7	1785.0	1791.1	1775.9	1721.4	1685.0	1691.1	1712.3	1678.9
65°	2588.1	1930.5	1594.1	1666.8	1672.9	1630.5	1578.9	1536.5	1515.3	1533.5	1518.3
67.5°	1478.9	1475.9	1460.7	1536.5	1533.5	1491.0	1409.2	1372.9	1336.5	1342.6	1333.5
70°	1254.7	1278.9	1309.2	1354.7	1351.6	1303.2	1206.2	1178.9	1127.4	1121.3	1106.2
72.5°	988.0	1030.4	1097.1	1130.4	1103.1	1042.5	978.9	933.4	888.0	860.7	869.8
75°	733.4	794.0	830.4	851.6	809.2	775.8	724.3	669.8	615.2	591.0	581.9
77.5°	533.4	551.6	584.9	600.1	572.8	539.4	509.1	454.6	403.1	369.7	360.6
80°	372.8	384.9	409.1	409.1	409.1	394.0	354.6	300.0	266.7	236.4	230.3
82.5°	260.6	272.8	297.0	284.9	281.8	263.7	239.4	197.0	160.6	139.4	133.3
85°	90.9	100.0	121.2	145.5	154.6	151.5	136.4	109.1	84.9	69.7	63.6
87.5°	21.2	21.2	24.2	21.2	21.2	24.2	21.2	21.2	21.2	15.2	12.1
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)