

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: P529610

Luminaire Tested: **GALN-SA4D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24163 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

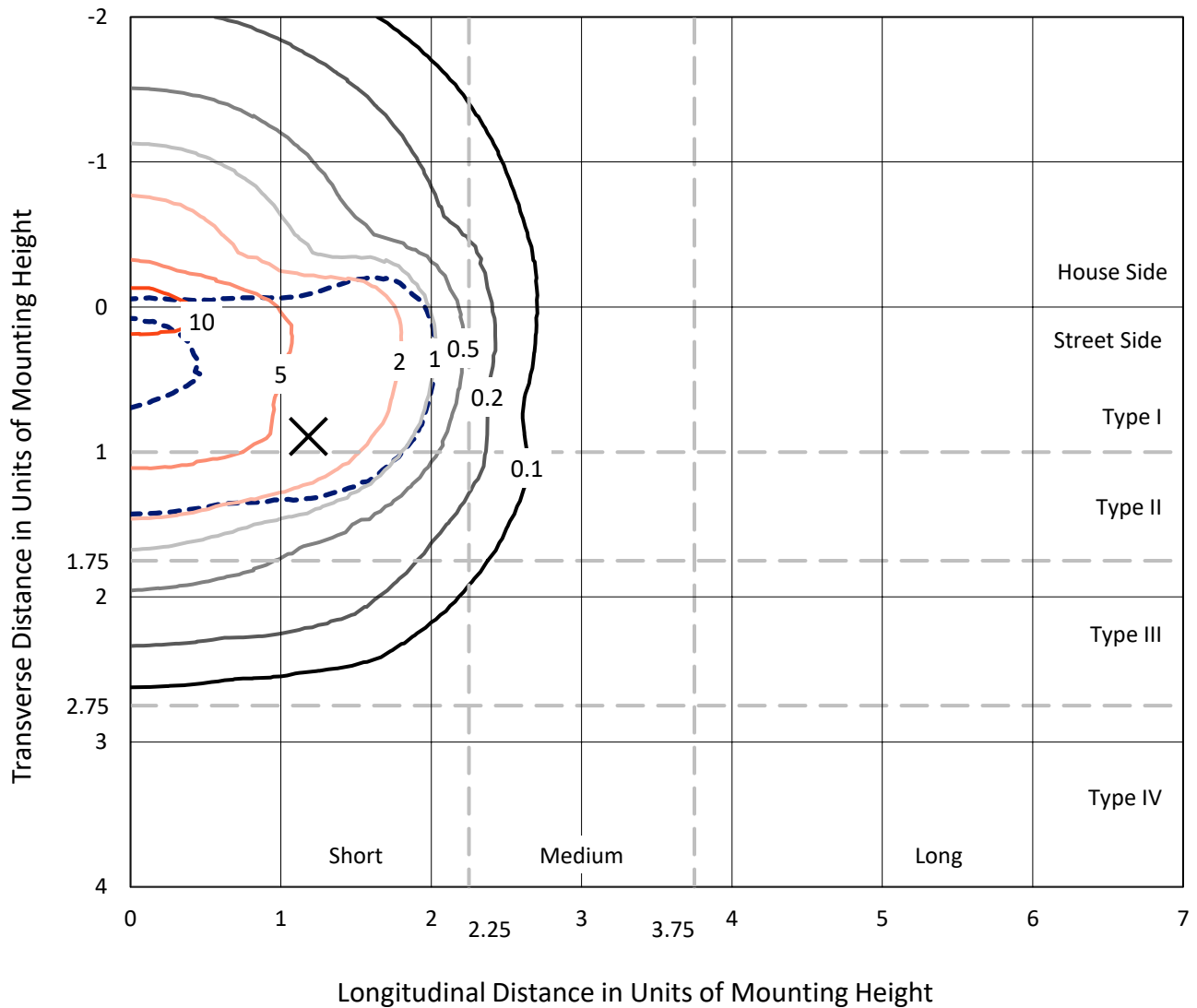
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

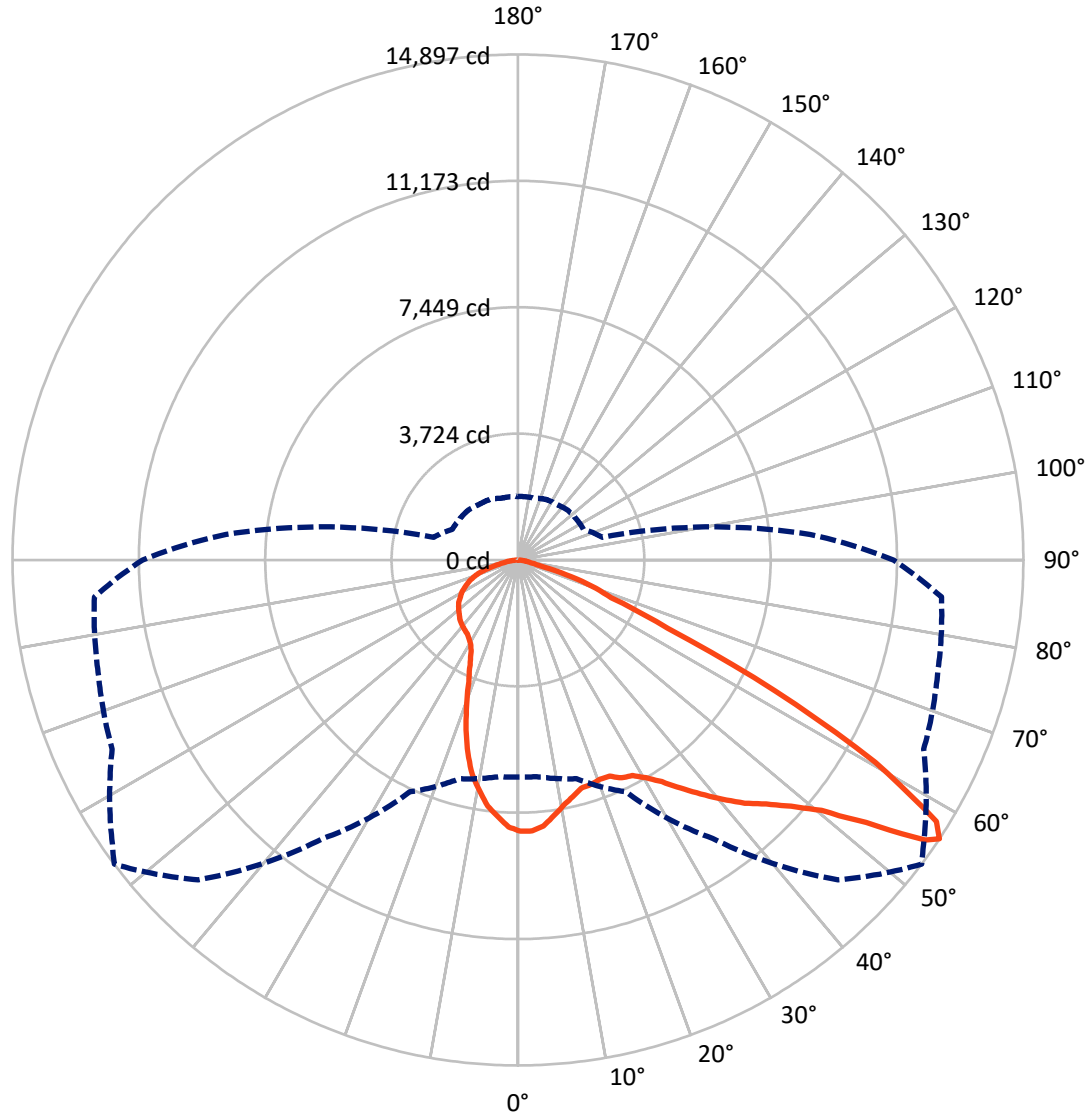
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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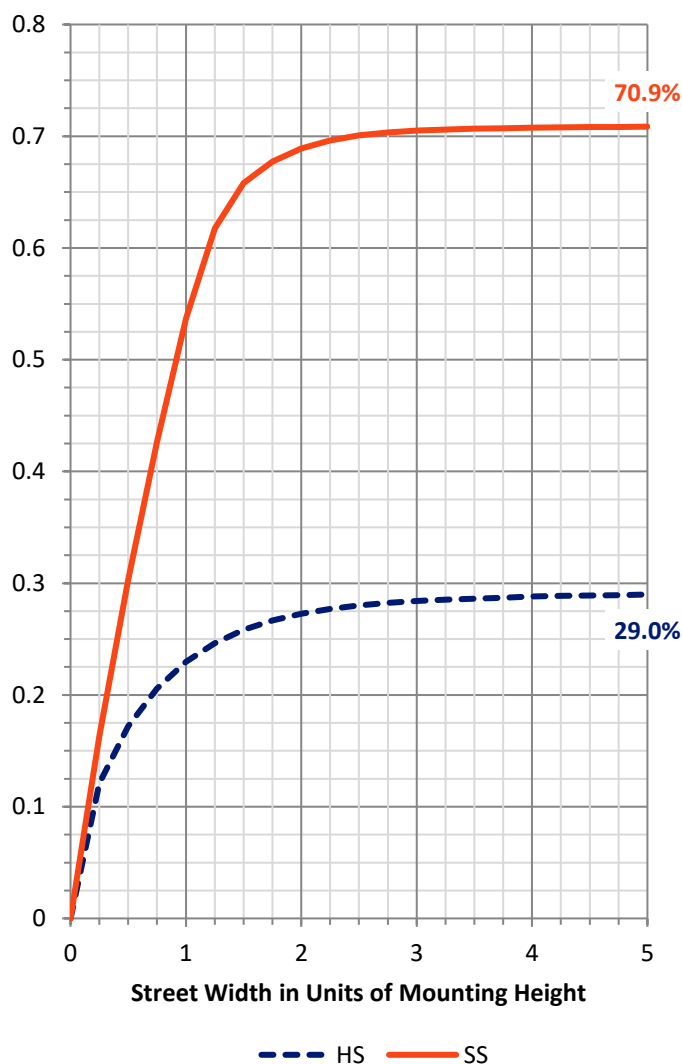
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7051.3	0.0	7051.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17111.7	0.0	17111.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	24163.0	0.0	24163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.7	2.9
10°-20°	1767.5	7.3
20°-30°	2606.4	10.8
30°-40°	3724.0	15.4
40°-50°	5125.6	21.2
50°-60°	6057.1	25.1
60°-70°	3228.0	13.4
70°-80°	818.9	3.4
80°-90°	127.7	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°	24163.0	100.0
0°-180°	24163.0	100.0

Coefficient of Utilization



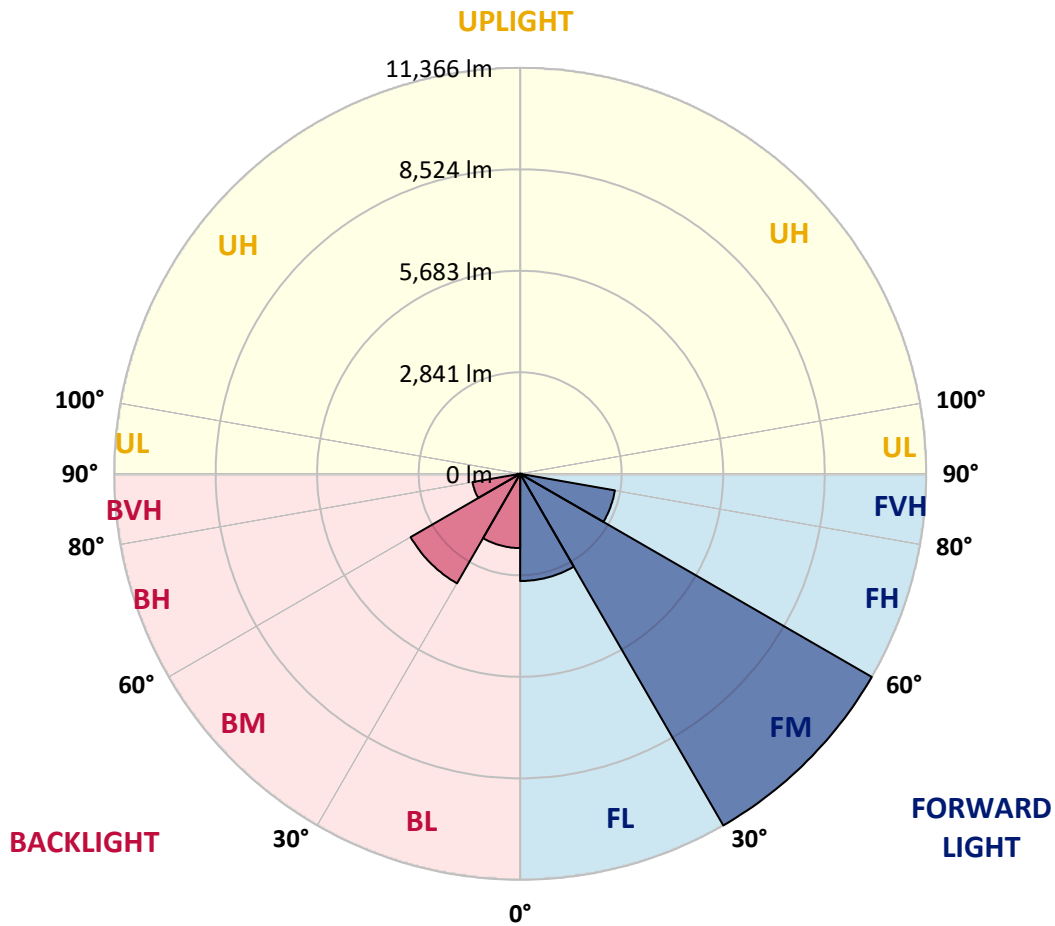
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3001.9	12.4			
FM (30°-60°)	11365.8	47.0			
FH (60°-80°)	2692.7	11.1			G2/5000
FVH (80°-90°)	51.3	0.2			G1/100
BL (0°-30°)	2079.7	8.6	B3/2500		
BM (30°-60°)	3540.9	14.7	B3/5000		
BH (60°-80°)	1354.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	76.4	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°	53°	55°	65°	75°	85°
0°	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1
2.5°	7894.9	7826.7	7867.0	7851.5	7978.6	8015.8	7997.2	8012.7	8084.0	8049.9	7978.6
5°	7377.2	7473.3	7491.9	7538.4	7612.8	7758.5	7873.2	7904.2	7938.3	8096.4	8080.9
7.5°	6906.1	6971.2	6937.1	7073.5	7234.7	7470.2	7609.7	7634.5	7947.6	8034.4	8099.5
10°	6608.5	6543.4	6698.4	6735.6	6918.5	7188.2	7355.5	7457.8	7743.0	8087.1	8127.4
12.5°	6332.6	6310.9	6403.9	6509.3	6713.9	6992.9	7163.4	7203.7	7643.8	8006.5	8195.6
15°	6128.1	6103.3	6196.3	6273.8	6512.4	6760.4	6977.4	7092.1	7535.3	7960.0	8136.7
17.5°	5966.9	5963.8	6016.5	6156.0	6400.8	6608.5	6958.8	6965.0	7479.5	8031.3	8186.3
20°	5957.6	5954.5	5963.8	6118.8	6341.9	6596.1	6899.9	6955.7	7479.5	7981.7	8189.4
22.5°	6035.1	5985.5	6041.3	6140.5	6301.6	6617.8	6921.6	7045.6	7659.3	8226.5	8328.8
25°	6159.1	6171.5	6202.5	6236.6	6329.5	6667.4	7113.8	7216.1	7870.1	8437.3	8521.0
27.5°	6385.3	6379.1	6391.5	6410.1	6490.7	6713.9	7191.3	7454.7	8310.2	8812.4	8728.7
30°	6717.0	6695.3	6744.9	6810.0	6735.6	6862.7	7448.5	7646.9	8719.4	9190.5	8961.2
32.5°	7017.7	7098.3	7191.3	7219.2	7129.3	7154.1	7789.5	7991.0	9060.4	9655.5	9246.3
35°	7392.7	7457.8	7581.8	7668.6	7653.1	7578.7	8254.4	8521.0	9553.2	9996.5	9547.0
37.5°	7758.5	7836.0	8040.6	8297.8	8155.3	8121.2	8750.4	8970.5	9705.1	10179.3	9767.1
40°	8347.4	8344.3	8697.7	8831.0	8958.1	8899.2	9264.9	9339.3	9785.7	10139.1	9773.3
42.5°	9038.7	8995.3	9354.8	9562.5	9726.8	9733.0	9801.2	9776.4	9822.9	9934.5	9708.2
45°	9695.8	9788.8	10151.4	10523.4	10687.7	10706.3	10253.7	10207.2	9888.0	9875.6	9584.2
47.5°	10498.6	10520.3	10817.9	11307.6	11688.9	11558.7	10839.6	10737.3	10173.1	10269.2	9791.9
50°	10545.1	10706.3	10972.9	11549.4	12721.1	12687.0	11599.0	11406.8	10631.9	10827.2	10371.5
52.5°	9571.8	9534.6	9850.8	10793.1	12643.6	13809.1	12857.5	12398.7	11617.6	11468.8	11310.7
55°	7293.5	7380.3	7659.3	8610.9	10979.1	13824.6	14571.6	14196.5	12671.5	12417.3	12234.4
56°	6397.7	6410.1	6673.6	7541.5	10018.2	13331.7	14897.1	14593.3	13195.3	12807.9	12528.9
57.5°	5303.6	5232.3	5368.6	5842.9	8455.9	12290.2	14540.6	14838.2	13809.1	13229.4	12842.0
60°	4175.3	4159.8	4104.0	4190.8	5343.8	9258.7	12104.2	12773.8	13747.1	12832.7	12299.5
62.5°	3409.6	3332.2	3443.7	3567.7	3713.4	5743.7	8505.5	8899.2	10914.0	10244.4	9240.1
65°	2644.0	2606.8	2746.3	3149.3	3236.1	3648.3	4844.8	5148.6	6444.2	6329.5	5573.2
67.5°	1819.5	1825.7	1946.6	2560.3	3000.5	2963.3	2966.4	3124.5	3363.2	2498.3	2176.0
70°	1153.1	1150.0	1215.1	1649.0	2414.7	2439.4	2315.5	2269.0	2151.2	1301.9	1379.4
72.5°	740.8	719.1	753.2	911.3	1249.2	1444.5	1487.8	1515.7	1246.1	1022.9	1109.7
75°	418.5	396.8	384.4	424.7	492.8	570.3	626.1	644.7	722.2	774.9	821.4
77.5°	127.1	114.7	139.5	186.0	244.9	328.6	399.9	412.3	486.6	548.6	595.1
80°	55.8	62.0	86.8	124.0	173.6	232.5	282.1	300.7	350.3	396.8	409.2
82.5°	34.1	37.2	58.9	83.7	120.9	164.3	201.5	207.7	257.3	294.5	303.8
85°	12.4	15.5	31.0	49.6	77.5	105.4	105.4	114.7	105.4	105.4	114.7
87.5°	0.0	0.0	3.1	6.2	6.2	9.3	12.4	12.4	15.5	18.6	21.7
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°	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1	7994.1
2.5°	8015.8	8000.3	7975.5	7885.6	7876.3	7848.4	7693.4	7668.6	7693.4	7619.0	7625.2
5°	8000.3	8046.8	7860.8	7770.9	7603.5	7482.6	7343.1	7271.8	7144.8	7064.2	7154.1
7.5°	8068.5	8049.9	7817.4	7622.1	7371.0	7064.2	6819.3	6679.8	6456.6	6394.6	6441.1
10°	8043.7	7944.5	7671.7	7414.4	6940.2	6670.5	6273.8	5889.4	5678.6	5570.1	5554.6
12.5°	8009.6	7981.7	7526.0	7082.8	6583.7	6016.5	5458.5	5095.9	4751.8	4603.0	4624.7
15°	8049.9	7814.3	7253.2	6692.2	6028.9	5285.0	4683.6	4215.6	3976.9	3880.8	3880.8
17.5°	8031.3	7733.7	7123.1	6255.2	5415.1	4534.8	3874.6	3592.5	3493.3	3493.3	3521.2
20°	8040.6	7786.4	6859.6	5818.1	4689.8	3818.8	3338.4	3236.1	3279.5	3295.0	3310.5
22.5°	8093.3	7612.8	6602.3	5337.6	4017.2	3267.1	3031.5	3034.6	3112.1	3195.8	3180.3
25°	8158.4	7544.6	6289.2	4860.3	3502.6	2997.4	2923.0	2913.7	2972.6	3016.0	3022.2
27.5°	8102.6	7426.8	5970.0	4265.2	3081.1	2817.6	2802.1	2808.3	2826.9	2913.7	2885.8
30°	8285.4	7460.9	5570.1	3766.1	2848.6	2758.7	2740.1	2730.8	2758.7	2783.5	2761.8
32.5°	8511.7	7340.0	5272.6	3285.7	2733.9	2715.3	2678.1	2665.7	2681.2	2656.4	2668.8
35°	8610.9	7318.3	4885.1	2941.6	2644.0	2628.5	2606.8	2603.7	2606.8	2585.1	2566.5
37.5°	8666.7	7420.6	4441.8	2783.5	2588.2	2603.7	2554.1	2547.9	2492.1	2504.5	2513.8
40°	8762.8	7262.5	4082.3	2631.6	2554.1	2523.1	2479.7	2470.4	2433.2	2411.6	2433.2
42.5°	8623.3	7216.1	3728.9	2566.5	2504.5	2470.4	2439.4	2386.8	2374.4	2355.8	2343.4
45°	8511.7	6949.5	3412.7	2485.9	2445.6	2427.0	2368.2	2312.4	2265.9	2284.5	2256.6
47.5°	8595.4	6856.5	3099.7	2417.7	2365.1	2343.4	2284.5	2241.1	2194.6	2172.9	2166.7
50°	8930.2	7030.1	2836.2	2368.2	2296.9	2284.5	2207.0	2157.4	2114.0	2098.5	2104.7
52.5°	9729.9	7504.3	2656.4	2265.9	2231.8	2176.0	2132.6	2070.6	2042.7	1993.1	2024.1
55°	10743.5	8276.1	2609.9	2169.8	2151.2	2101.6	2042.7	1996.2	1943.5	1903.2	1893.9
56°	11069.0	8645.0	2572.7	2132.6	2101.6	2073.7	1996.2	1968.3	1884.6	1875.3	1869.1
57.5°	11332.4	8970.5	2578.9	2061.3	2030.3	2005.5	1959.0	1890.8	1835.0	1800.9	1816.4
60°	10737.3	8397.0	2461.1	1952.8	1946.6	1900.1	1835.0	1804.0	1735.8	1695.5	1686.2
62.5°	7981.7	5700.3	1996.2	1813.3	1810.2	1760.6	1686.2	1652.1	1639.7	1583.9	1583.9
65°	4596.8	3573.9	1726.5	1698.6	1673.8	1624.2	1549.8	1521.9	1490.9	1472.3	1456.8
67.5°	1962.1	1853.6	1568.4	1565.3	1537.4	1475.4	1401.1	1357.7	1317.4	1280.2	1298.8
70°	1422.8	1444.5	1416.6	1401.1	1367.0	1289.5	1224.4	1171.7	1109.7	1084.9	1103.5
72.5°	1128.3	1174.8	1215.1	1218.2	1177.9	1088.0	1016.7	945.4	877.2	843.1	858.6
75°	855.5	886.5	926.8	936.1	877.2	815.2	747.0	672.6	619.9	579.6	585.8
77.5°	616.8	610.6	647.8	641.6	613.7	570.3	508.3	440.2	381.3	344.1	347.2
80°	421.6	430.9	452.6	449.5	415.4	387.5	341.0	285.2	241.8	210.8	204.6
82.5°	294.5	310.0	328.6	313.1	285.2	257.3	223.2	182.9	148.8	124.0	117.8
85°	105.4	120.9	139.5	148.8	158.1	151.9	127.1	102.3	74.4	62.0	58.9
87.5°	21.7	24.8	27.9	27.9	27.9	24.8	21.7	21.7	18.6	9.3	9.3
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)