

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: P529584

Luminaire Tested: **GALN-SA4D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529584
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-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 23623 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

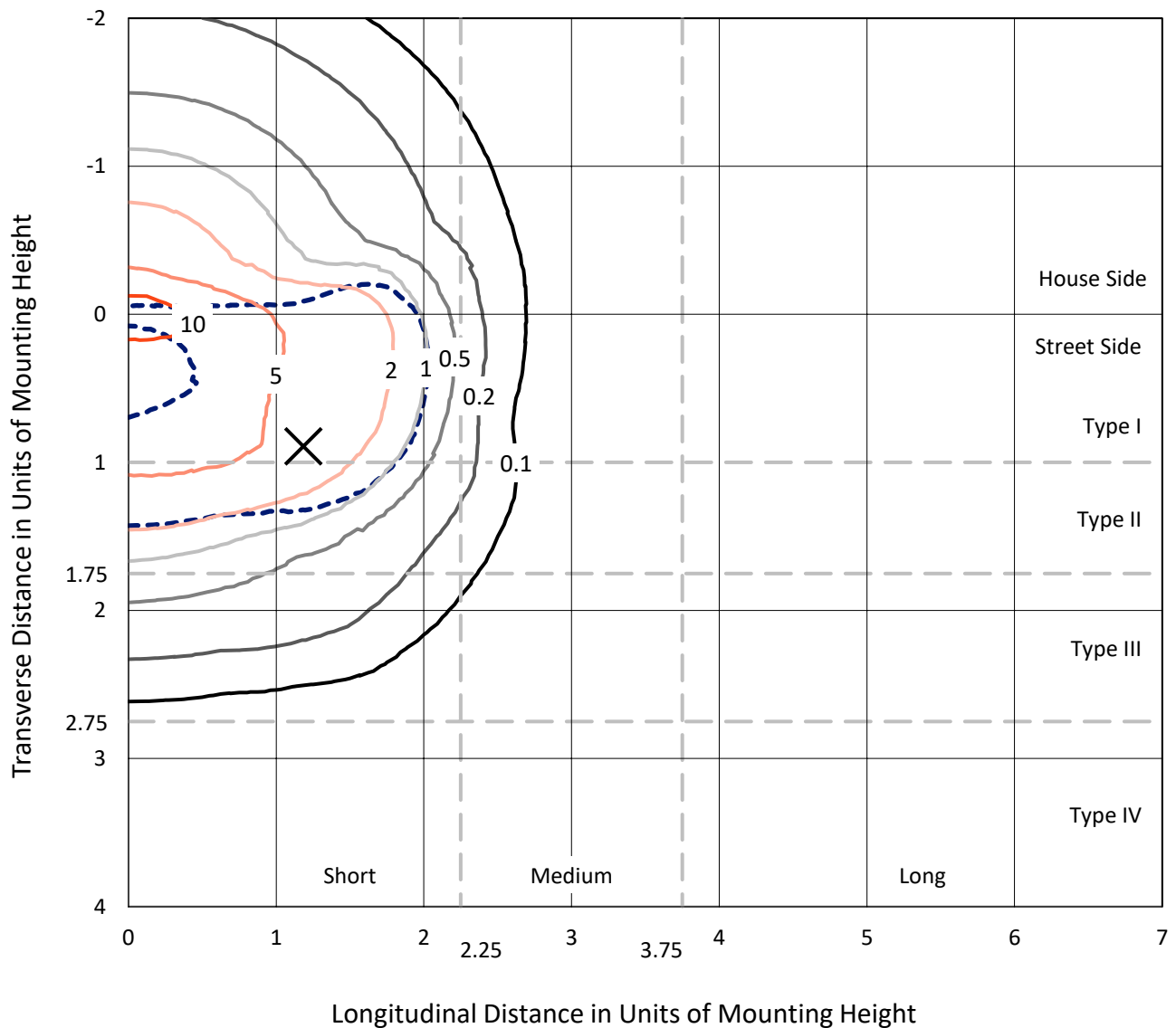
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

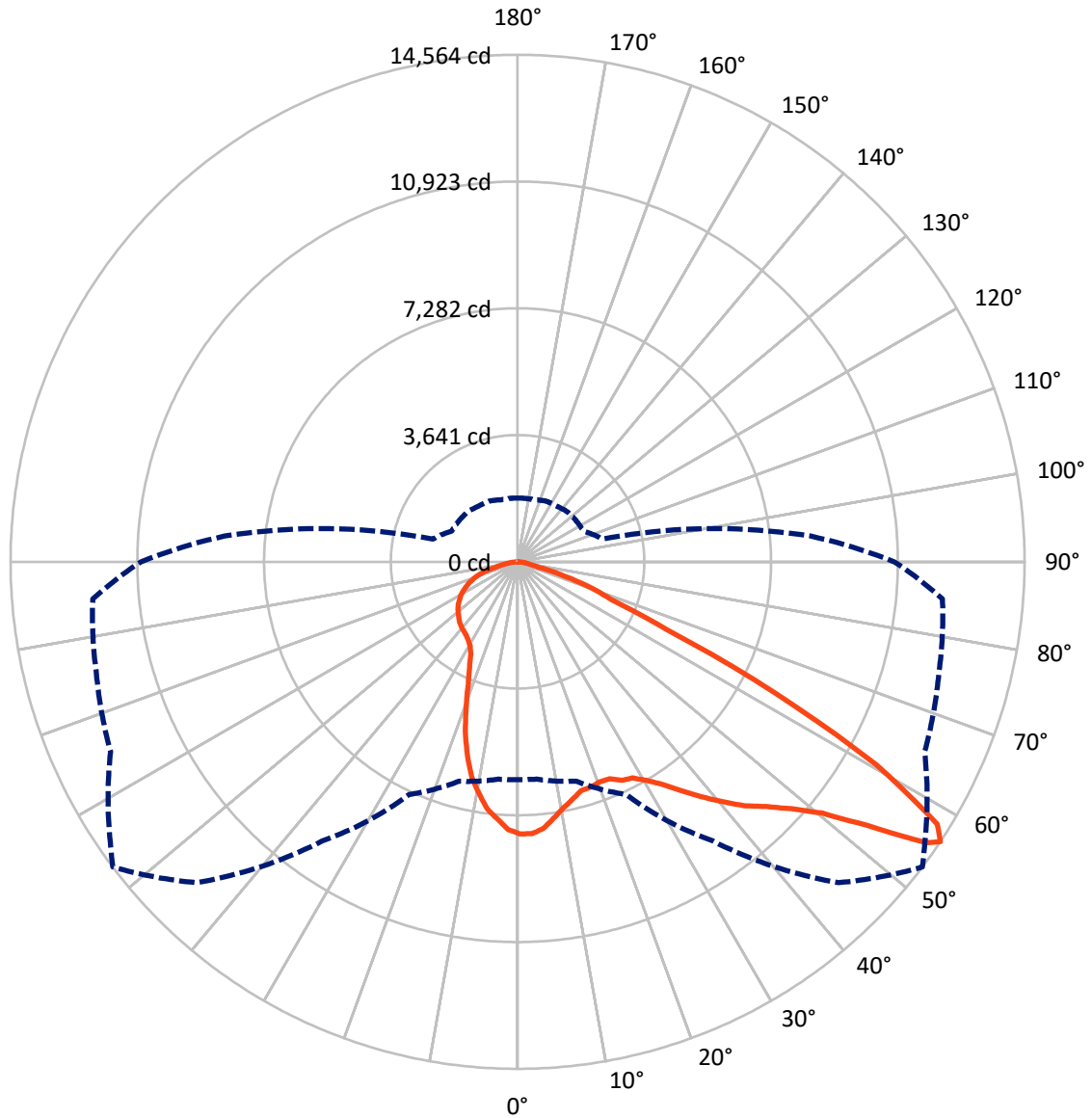
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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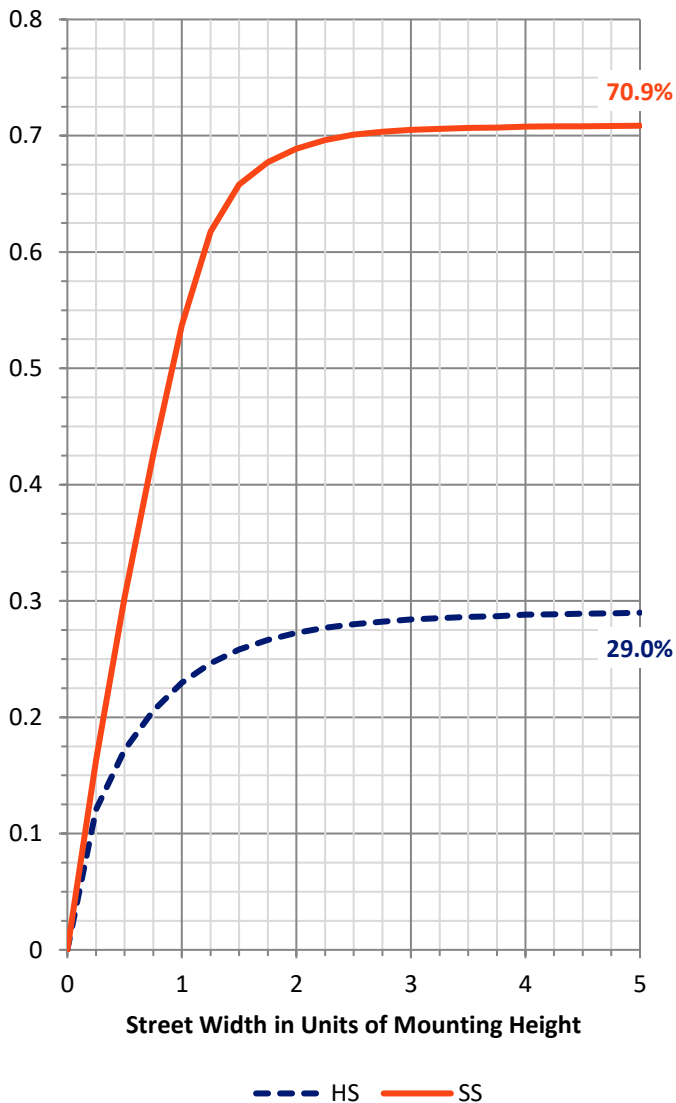
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6893.7	0.0	6893.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	16729.3	0.0	16729.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	23623.0	0.0	23623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.9	2.9
10°-20°	1728.0	7.3
20°-30°	2548.1	10.8
30°-40°	3640.8	15.4
40°-50°	5011.1	21.2
50°-60°	5921.7	25.1
60°-70°	3155.9	13.4
70°-80°	800.6	3.4
80°-90°	124.8	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°	23623.0	100.0
0°-180°	23623.0	100.0



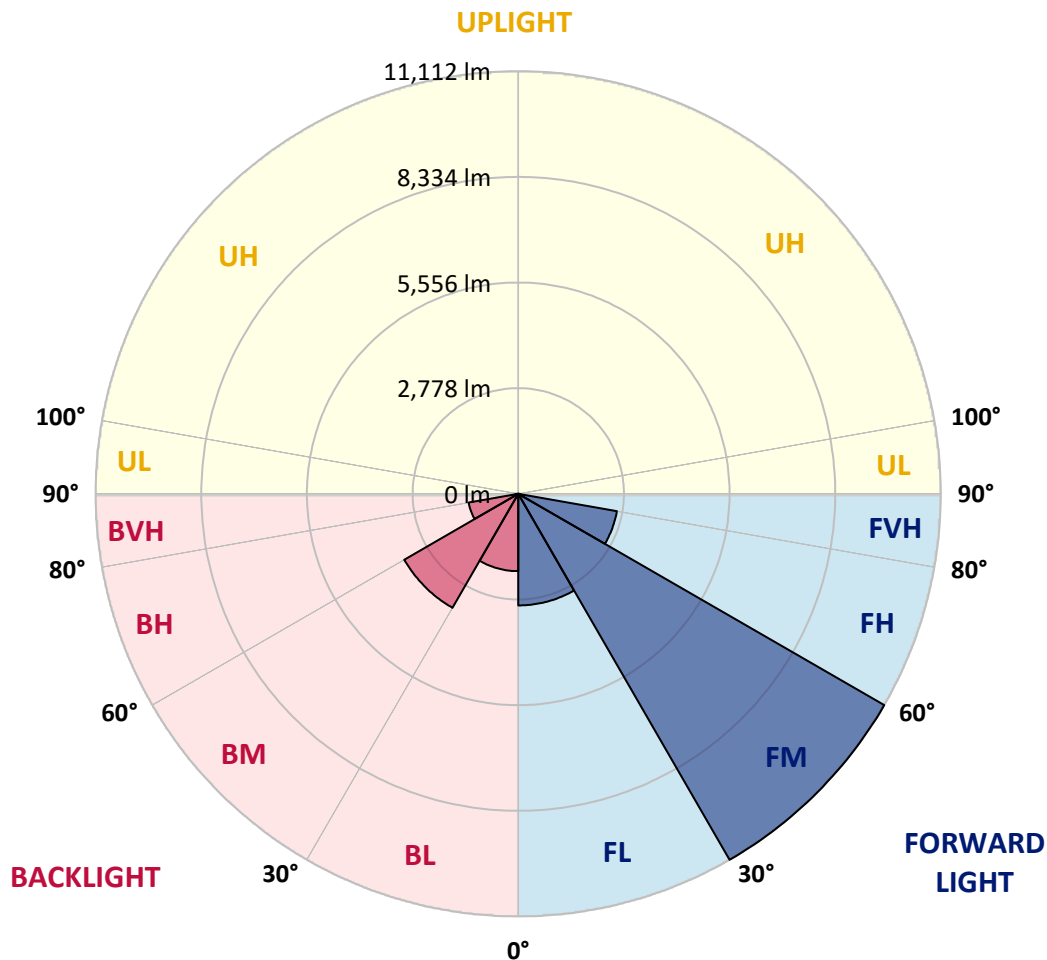
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2934.8	12.4			
FM (30°-60°)	11111.8	47.0			
FH (60°-80°)	2632.5	11.1			G2/5000
FVH (80°-90°)	50.2	0.2			G1/100
BL (0°-30°)	2033.2	8.6	B3/2500		
BM (30°-60°)	3461.8	14.7	B3/5000		
BH (60°-80°)	1324.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	74.7	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°	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4
2.5°	7718.4	7651.8	7691.2	7676.0	7800.3	7836.6	7818.4	7833.6	7903.3	7870.0	7800.3
5°	7212.4	7306.3	7324.5	7369.9	7442.7	7585.1	7697.2	7727.5	7760.9	7915.4	7900.3
7.5°	6751.7	6815.4	6782.1	6915.4	7073.0	7303.3	7439.6	7463.9	7770.0	7854.8	7918.5
10°	6460.8	6397.2	6548.7	6585.1	6763.9	7027.5	7191.2	7291.2	7570.0	7906.3	7945.7
12.5°	6191.1	6169.9	6260.8	6363.9	6563.9	6836.6	7003.3	7042.7	7473.0	7827.5	8012.4
15°	5991.1	5966.9	6057.8	6133.5	6366.9	6609.3	6821.4	6933.6	7366.9	7782.1	7954.8
17.5°	5833.5	5830.5	5882.0	6018.4	6257.8	6460.8	6803.3	6809.3	7312.4	7851.8	8003.3
20°	5824.4	5821.4	5830.5	5982.0	6200.2	6448.7	6745.7	6800.2	7312.4	7803.3	8006.3
22.5°	5900.2	5851.7	5906.3	6003.2	6160.8	6469.9	6766.9	6888.1	7488.1	8042.7	8142.7
25°	6021.4	6033.5	6063.8	6097.2	6188.1	6518.4	6954.8	7054.8	7694.2	8248.8	8330.6
27.5°	6242.6	6236.6	6248.7	6266.9	6345.7	6563.9	7030.5	7288.1	8124.5	8615.4	8533.6
30°	6566.9	6545.7	6594.2	6657.8	6585.1	6709.3	7282.1	7476.0	8524.5	8985.2	8760.9
32.5°	6860.8	6939.6	7030.5	7057.8	6969.9	6994.2	7615.4	7812.4	8857.9	9439.7	9039.7
35°	7227.5	7291.2	7412.4	7497.2	7482.1	7409.3	8070.0	8330.6	9339.7	9773.1	9333.7
37.5°	7585.1	7660.9	7860.9	8112.4	7973.0	7939.7	8554.8	8770.0	9488.2	9951.9	9548.8
40°	8160.9	8157.9	8503.3	8633.6	8757.9	8700.3	9057.9	9130.6	9567.0	9912.5	9554.9
42.5°	8836.7	8794.2	9145.8	9348.8	9509.4	9515.5	9582.1	9557.9	9603.4	9712.5	9491.2
45°	9479.1	9570.0	9924.6	10288.2	10448.8	10467.0	10024.6	9979.1	9667.0	9654.9	9370.0
47.5°	10264.0	10285.2	10576.1	11054.9	11427.7	11300.4	10597.3	10497.3	9945.8	10039.7	9573.1
50°	10309.4	10467.0	10727.6	11291.3	12436.8	12403.5	11339.8	11151.9	10394.3	10585.2	10139.7
52.5°	9357.9	9321.5	9630.6	10551.9	12361.0	13500.5	12570.1	12121.6	11358.0	11212.5	11058.0
55°	7130.5	7215.4	7488.1	8418.5	10733.7	13515.6	14245.9	13879.3	12388.3	12139.8	11961.0
56°	6254.8	6266.9	6524.5	7373.0	9794.3	13033.8	14564.1	14267.2	12900.4	12521.6	12248.9
57.5°	5185.0	5115.3	5248.7	5712.3	8267.0	12015.6	14215.6	14506.6	13500.5	12933.8	12555.0
60°	4082.0	4066.8	4012.3	4097.1	5224.4	9051.8	11833.7	12488.3	13439.9	12545.9	12024.7
62.5°	3333.4	3257.7	3366.8	3488.0	3630.4	5615.3	8315.4	8700.3	10670.1	10015.5	9033.6
65°	2584.9	2548.6	2684.9	3078.9	3163.7	3566.8	4736.5	5033.5	6300.2	6188.1	5448.7
67.5°	1778.8	1784.9	1903.1	2503.1	2933.4	2897.1	2900.1	3054.7	3288.0	2442.5	2127.3
70°	1127.3	1124.3	1187.9	1612.2	2360.7	2384.9	2263.7	2218.3	2103.1	1272.8	1348.5
72.5°	724.3	703.1	736.4	890.9	1221.3	1412.2	1454.6	1481.9	1218.2	1000.0	1084.9
75°	409.1	387.9	375.8	415.2	481.8	557.6	612.1	630.3	706.1	757.6	803.1
77.5°	124.2	112.1	136.4	181.8	239.4	321.2	390.9	403.0	475.8	536.4	581.8
80°	54.5	60.6	84.9	121.2	169.7	227.3	275.8	293.9	342.4	387.9	400.0
82.5°	33.3	36.4	57.6	81.8	118.2	160.6	197.0	203.0	251.5	287.9	297.0
85°	12.1	15.2	30.3	48.5	75.8	103.0	103.0	112.1	103.0	103.0	112.1
87.5°	0.0	0.0	3.0	6.1	6.1	9.1	12.1	12.1	15.2	18.2	21.2
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°	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4	7815.4
2.5°	7836.6	7821.5	7797.2	7709.4	7700.3	7673.0	7521.5	7497.2	7521.5	7448.7	7454.8
5°	7821.5	7866.9	7685.1	7597.2	7433.6	7315.4	7179.0	7109.3	6985.1	6906.3	6994.2
7.5°	7888.1	7870.0	7642.7	7451.8	7206.3	6906.3	6666.9	6530.5	6312.3	6251.7	6297.2
10°	7863.9	7766.9	7500.3	7248.7	6785.1	6521.4	6133.5	5757.8	5551.7	5445.6	5430.5
12.5°	7830.6	7803.3	7357.8	6924.5	6436.6	5882.0	5336.5	4982.0	4645.6	4500.2	4521.4
15°	7870.0	7639.7	7091.2	6542.6	5894.1	5166.8	4578.9	4121.4	3888.0	3794.1	3794.1
17.5°	7851.8	7560.9	6963.9	6115.4	5294.1	4433.5	3788.0	3512.2	3415.3	3415.3	3442.5
20°	7860.9	7612.4	6706.3	5688.1	4585.0	3733.5	3263.7	3163.7	3206.2	3221.3	3236.5
22.5°	7912.4	7442.7	6454.8	5218.4	3927.4	3194.0	2963.7	2966.8	3042.5	3124.3	3109.2
25°	7976.0	7376.0	6148.7	4751.7	3424.4	2930.4	2857.7	2848.6	2906.2	2948.6	2954.6
27.5°	7921.5	7260.9	5836.6	4169.8	3012.2	2754.6	2739.5	2745.5	2763.7	2848.6	2821.3
30°	8100.3	7294.2	5445.6	3681.9	2784.9	2697.1	2678.9	2669.8	2697.1	2721.3	2700.1
32.5°	8321.5	7176.0	5154.7	3212.2	2672.8	2654.6	2618.3	2606.1	2621.3	2597.1	2609.2
35°	8418.5	7154.8	4775.9	2875.9	2584.9	2569.8	2548.6	2545.5	2548.6	2527.4	2509.2
37.5°	8473.0	7254.8	4342.6	2721.3	2530.4	2545.5	2497.1	2491.0	2436.4	2448.6	2457.7
40°	8567.0	7100.2	3991.0	2572.8	2497.1	2466.8	2424.3	2415.2	2378.9	2357.7	2378.9
42.5°	8430.6	7054.8	3645.6	2509.2	2448.6	2415.2	2384.9	2333.4	2321.3	2303.1	2291.0
45°	8321.5	6794.2	3336.5	2430.4	2391.0	2372.8	2315.2	2260.7	2215.2	2233.4	2206.1
47.5°	8403.3	6703.3	3030.4	2363.7	2312.2	2291.0	2233.4	2191.0	2145.5	2124.3	2118.3
50°	8730.6	6873.0	2772.8	2315.2	2245.5	2233.4	2157.6	2109.2	2066.7	2051.6	2057.6
52.5°	9512.4	7336.6	2597.1	2215.2	2181.9	2127.3	2084.9	2024.3	1997.0	1948.6	1978.9
55°	10503.4	8091.2	2551.6	2121.3	2103.1	2054.6	1997.0	1951.6	1900.1	1860.7	1851.6
56°	10821.6	8451.8	2515.2	2084.9	2054.6	2027.3	1951.6	1924.3	1842.5	1833.4	1827.3
57.5°	11079.2	8770.0	2521.3	2015.2	1984.9	1960.7	1915.2	1848.5	1794.0	1760.7	1775.8
60°	10497.3	8209.4	2406.1	1909.2	1903.1	1857.6	1794.0	1763.7	1697.0	1657.6	1648.5
62.5°	7803.3	5572.9	1951.6	1772.8	1769.8	1721.3	1648.5	1615.2	1603.1	1548.5	1548.5
65°	4494.1	3494.1	1687.9	1660.7	1636.4	1587.9	1515.2	1487.9	1457.6	1439.4	1424.3
67.5°	1918.2	1812.2	1533.4	1530.4	1503.1	1442.5	1369.7	1327.3	1287.9	1251.6	1269.7
70°	1391.0	1412.2	1384.9	1369.7	1336.4	1260.6	1197.0	1145.5	1084.9	1060.6	1078.8
72.5°	1103.1	1148.5	1187.9	1190.9	1151.6	1063.7	994.0	924.3	857.6	824.3	839.4
75°	836.4	866.7	906.1	915.2	857.6	797.0	730.3	657.6	606.1	566.7	572.7
77.5°	603.1	597.0	633.4	627.3	600.0	557.6	497.0	430.3	372.7	336.4	339.4
80°	412.1	421.2	442.4	439.4	406.1	378.8	333.3	278.8	236.4	206.1	200.0
82.5°	287.9	303.0	321.2	306.1	278.8	251.5	218.2	178.8	145.5	121.2	115.2
85°	103.0	118.2	136.4	145.5	154.6	148.5	124.2	100.0	72.7	60.6	57.6
87.5°	21.2	24.2	27.3	27.3	27.3	24.2	21.2	21.2	18.2	9.1	9.1
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)