

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: P532626

Luminaire Tested: **GALN-SA8A-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532626
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-SA8A-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 28505 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

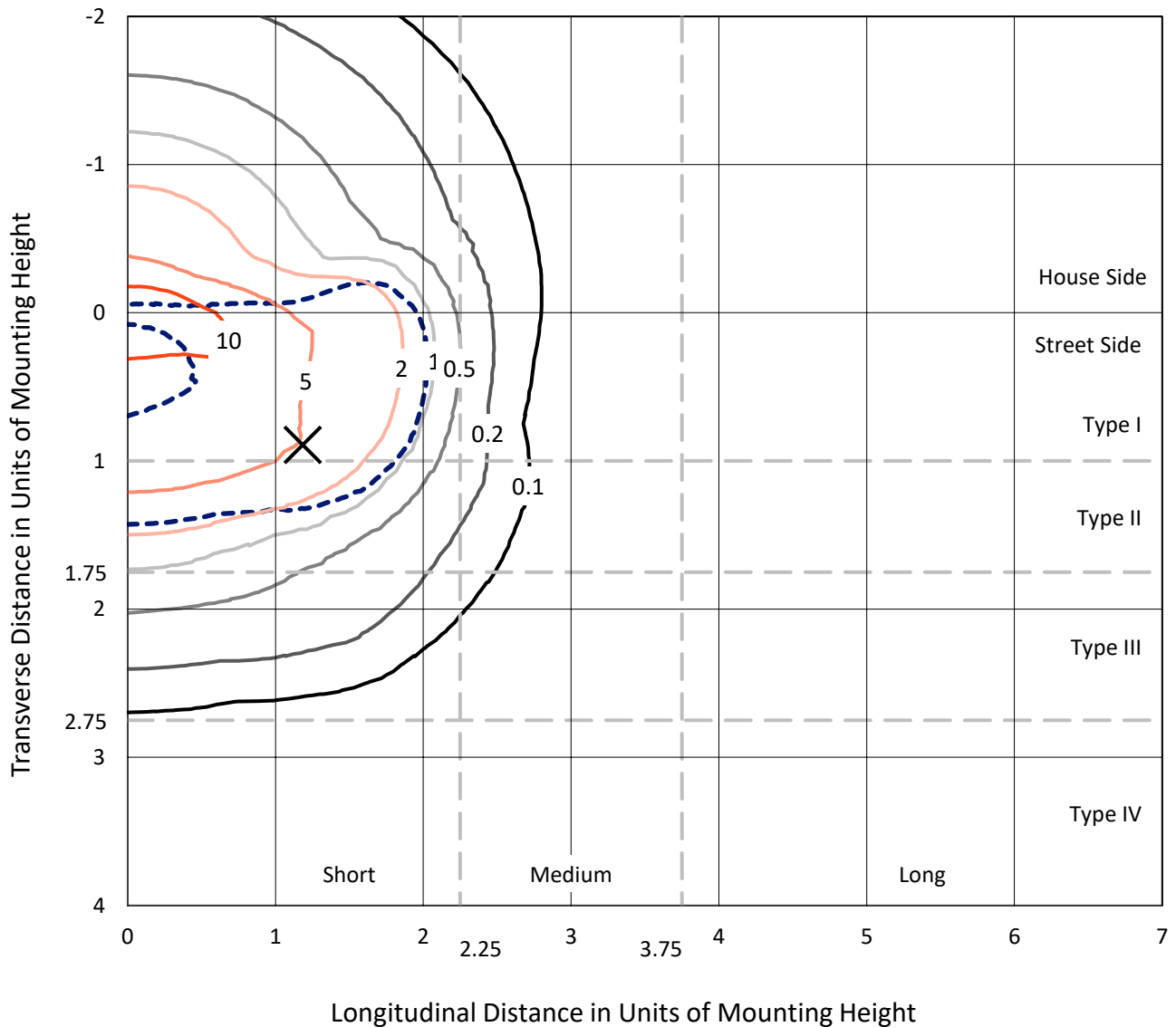
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

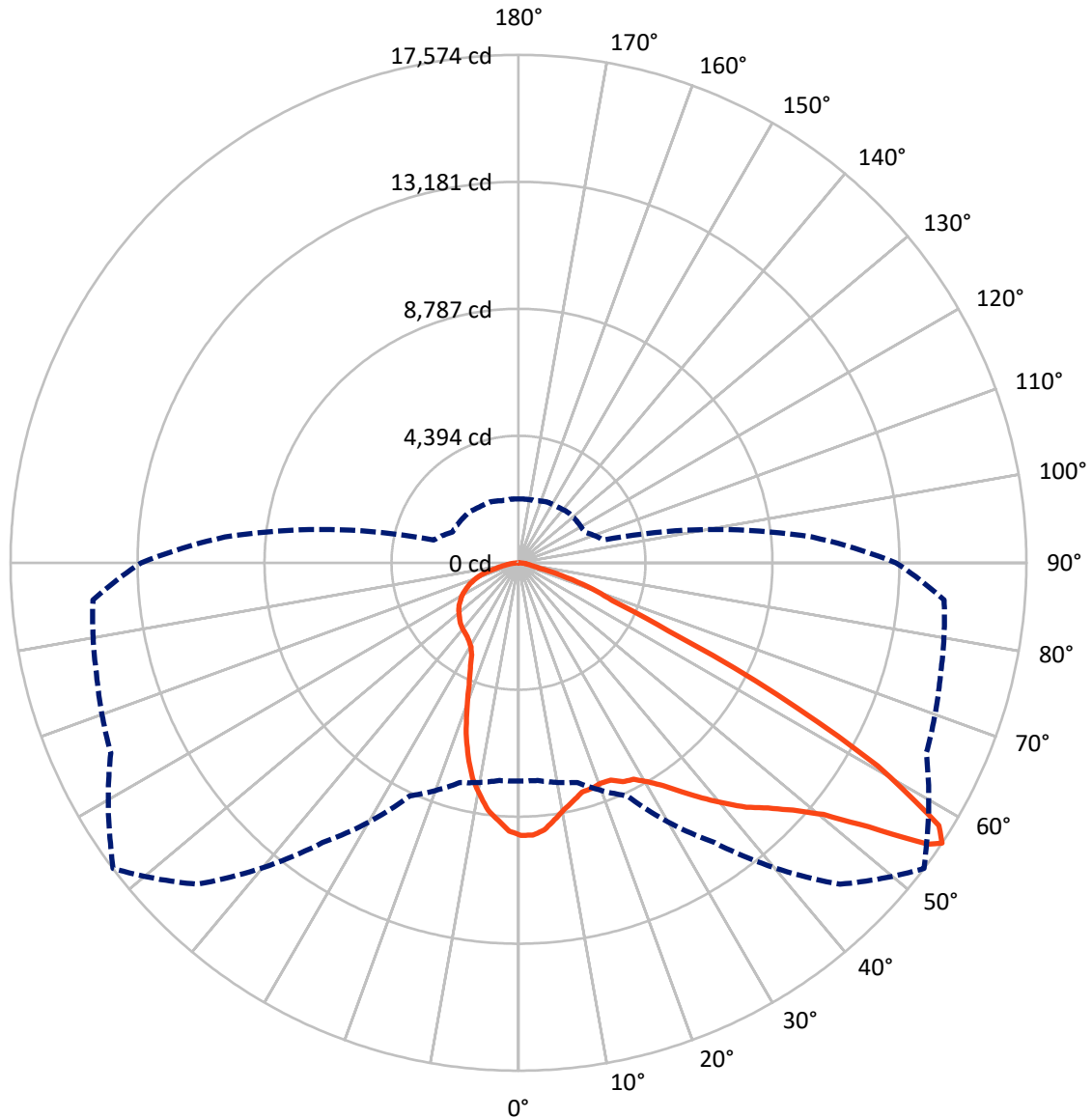
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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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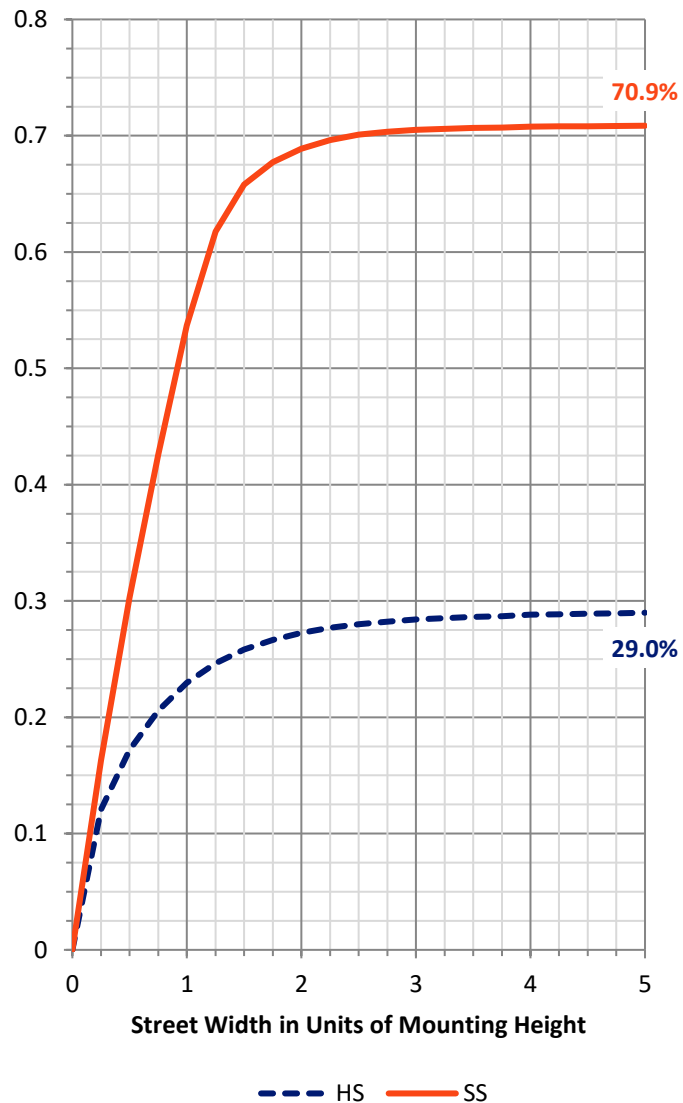
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8318.4	0.0	8318.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	20186.6	0.0	20186.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	28505.0	0.0	28505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.9	2.9
10°-20°	2085.2	7.3
20°-30°	3074.7	10.8
30°-40°	4393.2	15.4
40°-50°	6046.7	21.2
50°-60°	7145.5	25.1
60°-70°	3808.1	13.4
70°-80°	966.1	3.4
80°-90°	150.6	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°	28505.0	100.0
0°-180°	28505.0	100.0

Coefficient of Utilization



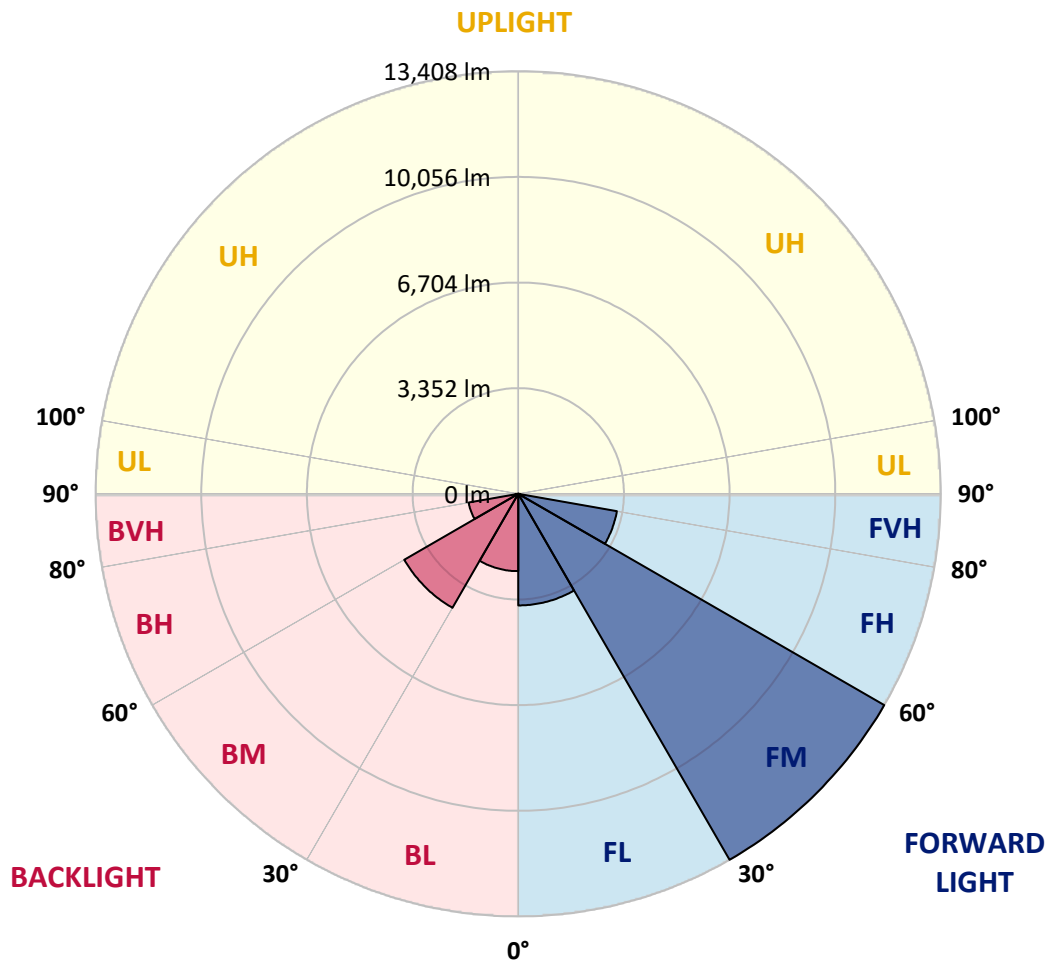
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3541.3	12.4			
FM (30°-60°)	13408.2	47.0			
FH (60°-80°)	3176.5	11.1			G2/5000
FVH (80°-90°)	60.6	0.2			G1/100
BL (0°-30°)	2453.4	8.6	B3/2500		
BM (30°-60°)	4177.2	14.7	B3/5000		
BH (60°-80°)	1597.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	90.1	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°	53°	55°	65°	75°	85°
0°	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6
2.5°	9313.6	9233.1	9280.7	9262.4	9412.3	9456.2	9434.2	9452.5	9536.6	9496.4	9412.3
5°	8702.9	8816.3	8838.2	8893.0	8980.8	9152.7	9288.0	9324.5	9364.8	9551.2	9533.0
7.5°	8147.1	8223.9	8183.6	8344.5	8534.7	8812.6	8977.1	9006.4	9375.7	9478.1	9554.9
10°	7796.0	7719.3	7902.1	7946.0	8161.7	8479.8	8677.3	8798.0	9134.4	9540.3	9587.8
12.5°	7470.6	7445.0	7554.7	7679.0	7920.4	8249.5	8450.6	8498.1	9017.4	9445.2	9668.3
15°	7229.3	7200.0	7309.7	7401.1	7682.7	7975.2	8231.2	8366.5	8889.4	9390.4	9598.8
17.5°	7039.1	7035.5	7097.6	7262.2	7551.0	7796.0	8209.2	8216.6	8823.6	9474.5	9657.3
20°	7028.1	7024.5	7035.5	7218.3	7481.6	7781.4	8139.8	8205.6	8823.6	9416.0	9660.9
22.5°	7119.6	7061.0	7126.9	7243.9	7434.0	7807.0	8165.4	8311.6	9035.7	9704.8	9825.5
25°	7265.8	7280.4	7317.0	7357.2	7466.9	7865.5	8392.1	8512.8	9284.3	9953.5	10052.2
27.5°	7532.8	7525.4	7540.1	7562.0	7657.1	7920.4	8483.5	8794.3	9803.6	10395.9	10297.2
30°	7924.0	7898.4	7956.9	8033.7	7946.0	8095.9	8787.0	9021.0	10286.2	10842.1	10571.5
32.5°	8278.7	8373.8	8483.5	8516.4	8410.4	8439.6	9189.2	9426.9	10688.5	11390.6	10907.9
35°	8721.2	8798.0	8944.2	9046.6	9028.3	8940.6	9737.7	10052.2	11269.9	11792.8	11262.6
37.5°	9152.7	9244.1	9485.4	9788.9	9620.7	9580.5	10322.8	10582.4	11449.1	12008.5	11522.2
40°	9847.4	9843.8	10260.6	10417.9	10567.8	10498.3	10929.8	11017.6	11544.1	11961.0	11529.5
42.5°	10662.9	10611.7	11035.9	11280.9	11474.7	11482.0	11562.4	11533.2	11588.0	11719.7	11452.7
45°	11438.1	11547.8	11975.6	12414.4	12608.2	12630.2	12096.3	12041.4	11664.8	11650.2	11306.5
47.5°	12385.2	12410.8	12761.8	13339.6	13789.3	13635.8	12787.4	12666.7	12001.2	12114.6	11551.5
50°	12440.0	12630.2	12944.6	13624.8	15007.0	14966.8	13683.3	13456.6	12542.4	12772.8	12235.3
52.5°	11291.8	11247.9	11620.9	12732.6	14915.6	16290.5	15167.9	14626.7	13705.2	13529.7	13343.2
55°	8604.2	8706.6	9035.7	10158.3	12952.0	16308.8	17190.1	16747.6	14948.5	14648.7	14432.9
56°	7547.4	7562.0	7872.8	8896.7	11818.4	15727.4	17574.0	17215.6	15566.5	15109.4	14780.3
57.5°	6256.6	6172.5	6333.4	6892.8	9975.4	14498.7	17153.5	17504.5	16290.5	15606.7	15149.6
60°	4925.5	4907.3	4841.4	4943.8	6304.1	10922.5	14279.3	15069.2	16217.4	15138.7	14509.7
62.5°	4022.3	3930.9	4062.6	4208.8	4380.7	6775.8	10033.9	10498.3	12875.2	12085.3	10900.6
65°	3119.1	3075.3	3239.8	3715.2	3817.6	4303.9	5715.4	6073.7	7602.2	7466.9	6574.7
67.5°	2146.5	2153.8	2296.4	3020.4	3539.7	3495.8	3499.4	3685.9	3967.5	2947.3	2567.0
70°	1360.3	1356.6	1433.4	1945.4	2848.6	2877.8	2731.5	2676.7	2537.7	1535.8	1627.2
72.5°	873.9	848.3	888.6	1075.1	1473.6	1704.0	1755.2	1788.1	1470.0	1206.7	1309.1
75°	493.7	468.1	453.4	501.0	581.4	672.8	738.6	760.6	852.0	914.2	969.0
77.5°	149.9	135.3	164.6	219.4	288.9	387.6	471.7	486.3	574.1	647.2	702.1
80°	65.8	73.1	102.4	146.3	204.8	274.3	332.8	354.7	413.2	468.1	482.7
82.5°	40.2	43.9	69.5	98.7	142.6	193.8	237.7	245.0	303.5	347.4	358.4
85°	14.6	18.3	36.6	58.5	91.4	124.3	124.3	135.3	124.3	124.3	135.3
87.5°	0.0	0.0	3.7	7.3	7.3	11.0	14.6	14.6	18.3	21.9	25.6
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°	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6	9430.6
2.5°	9456.2	9437.9	9408.6	9302.6	9291.6	9258.7	9075.9	9046.6	9075.9	8988.1	8995.4
5°	9437.9	9492.7	9273.3	9167.3	8969.8	8827.2	8662.7	8578.6	8428.6	8333.6	8439.6
7.5°	9518.3	9496.4	9222.1	8991.8	8695.6	8333.6	8044.7	7880.1	7616.9	7543.7	7598.6
10°	9489.1	9372.1	9050.3	8746.8	8187.3	7869.2	7401.1	6947.7	6699.0	6571.1	6552.8
12.5°	9448.9	9416.0	8878.4	8355.5	7766.8	7097.6	6439.4	6011.6	5605.7	5430.2	5455.8
15°	9496.4	9218.5	8556.6	7894.8	7112.2	6234.6	5525.2	4973.1	4691.5	4578.2	4578.2
17.5°	9474.5	9123.4	8403.1	7379.2	6388.2	5349.7	4570.8	4238.1	4121.1	4121.1	4154.0
20°	9485.4	9185.6	8092.2	6863.6	5532.6	4505.0	3938.2	3817.6	3868.8	3887.1	3905.3
22.5°	9547.6	8980.8	7788.7	6296.8	4739.1	3854.1	3576.2	3579.9	3671.3	3770.0	3751.8
25°	9624.4	8900.4	7419.4	5733.7	4132.0	3536.0	3448.2	3437.3	3506.8	3557.9	3565.3
27.5°	9558.6	8761.4	7042.8	5031.6	3634.7	3323.9	3305.6	3313.0	3334.9	3437.3	3404.4
30°	9774.3	8801.6	6571.1	4442.9	3360.5	3254.4	3232.5	3221.5	3254.4	3283.7	3258.1
32.5°	10041.2	8659.0	6220.0	3876.1	3225.2	3203.3	3159.4	3144.7	3163.0	3133.8	3148.4
35°	10158.3	8633.4	5762.9	3470.2	3119.1	3100.9	3075.3	3071.6	3075.3	3049.7	3027.7
37.5°	10224.1	8754.1	5240.0	3283.7	3053.3	3071.6	3013.1	3005.8	2940.0	2954.6	2965.6
40°	10337.4	8567.6	4815.8	3104.5	3013.1	2976.5	2925.3	2914.4	2870.5	2844.9	2870.5
42.5°	10172.9	8512.8	4399.0	3027.7	2954.6	2914.4	2877.8	2815.6	2801.0	2779.1	2764.4
45°	10041.2	8198.3	4026.0	2932.7	2885.1	2863.2	2793.7	2727.9	2673.0	2695.0	2662.1
47.5°	10140.0	8088.6	3656.7	2852.2	2790.0	2764.4	2695.0	2643.8	2588.9	2563.3	2556.0
50°	10534.9	8293.3	3345.9	2793.7	2709.6	2695.0	2603.6	2545.0	2493.9	2475.6	2482.9
52.5°	11478.3	8852.8	3133.8	2673.0	2632.8	2567.0	2515.8	2442.7	2409.8	2351.2	2387.8
55°	12674.1	9763.3	3078.9	2559.7	2537.7	2479.2	2409.8	2354.9	2292.7	2245.2	2234.2
56°	13058.0	10198.5	3035.0	2515.8	2479.2	2446.3	2354.9	2322.0	2223.3	2212.3	2205.0
57.5°	13368.8	10582.4	3042.4	2431.7	2395.1	2365.9	2311.0	2230.6	2164.8	2124.5	2142.8
60°	12666.7	9905.9	2903.4	2303.7	2296.4	2241.5	2164.8	2128.2	2047.7	2000.2	1989.2
62.5°	9416.0	6724.6	2354.9	2139.2	2135.5	2077.0	1989.2	1949.0	1934.4	1868.6	1868.6
65°	5422.9	4216.2	2036.8	2003.9	1974.6	1916.1	1828.3	1795.4	1758.9	1736.9	1718.6
67.5°	2314.7	2186.7	1850.3	1846.6	1813.7	1740.6	1652.8	1601.6	1554.1	1510.2	1532.1
70°	1678.4	1704.0	1671.1	1652.8	1612.6	1521.2	1444.4	1382.2	1309.1	1279.8	1301.8
72.5°	1331.0	1385.9	1433.4	1437.1	1389.5	1283.5	1199.4	1115.3	1034.8	994.6	1012.9
75°	1009.2	1045.8	1093.3	1104.3	1034.8	961.7	881.3	793.5	731.3	683.8	691.1
77.5°	727.7	720.4	764.2	756.9	724.0	672.8	599.7	519.2	449.8	405.9	409.5
80°	497.3	508.3	533.9	530.2	490.0	457.1	402.2	336.4	285.2	248.7	241.3
82.5°	347.4	365.7	387.6	369.3	336.4	303.5	263.3	215.7	175.5	146.3	139.0
85°	124.3	142.6	164.6	175.5	186.5	179.2	149.9	120.7	87.8	73.1	69.5
87.5°	25.6	29.3	32.9	32.9	32.9	29.3	25.6	25.6	21.9	11.0	11.0
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)