

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: P529829

Luminaire Tested: **GALN-SA5A-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12455 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

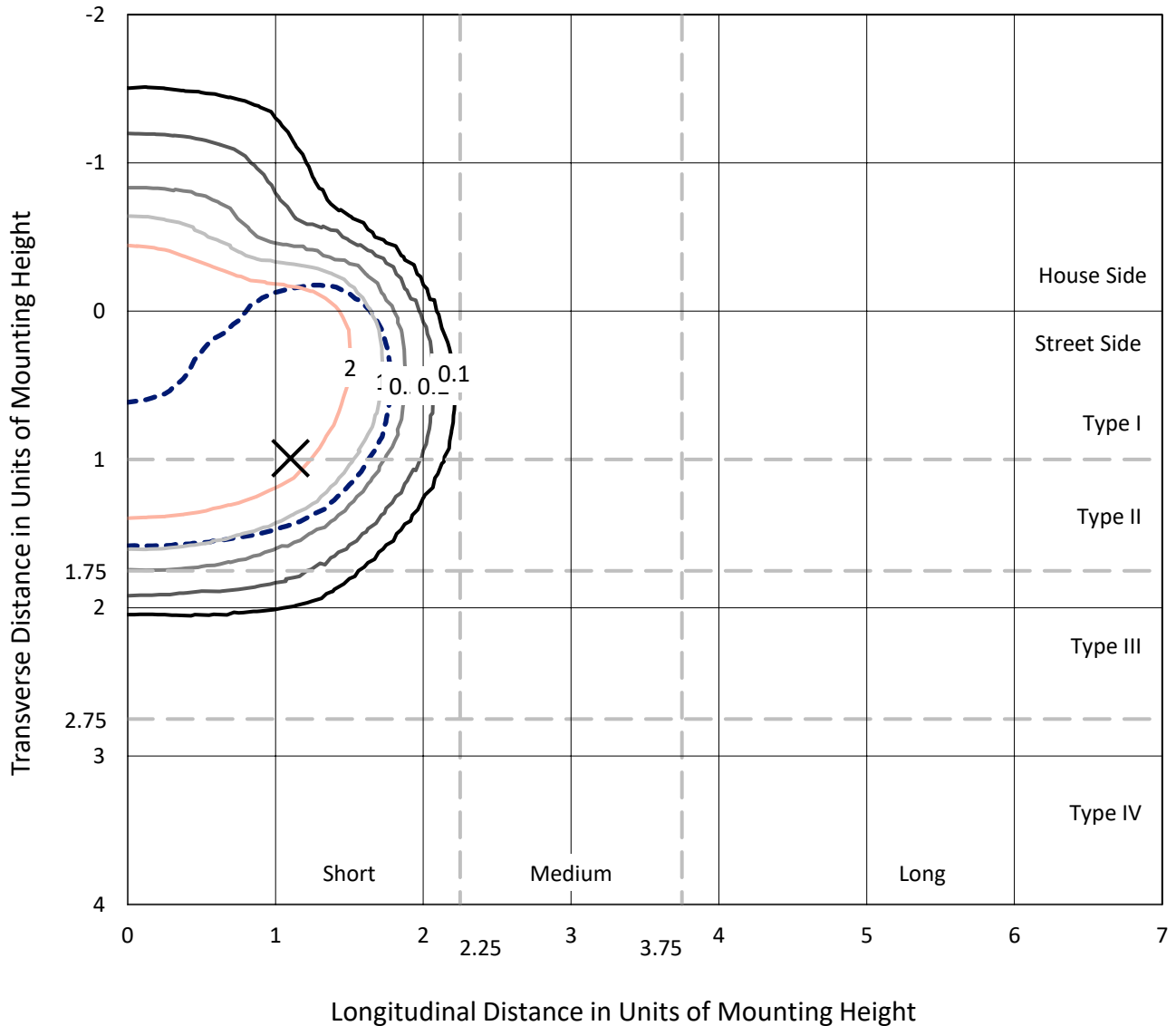
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

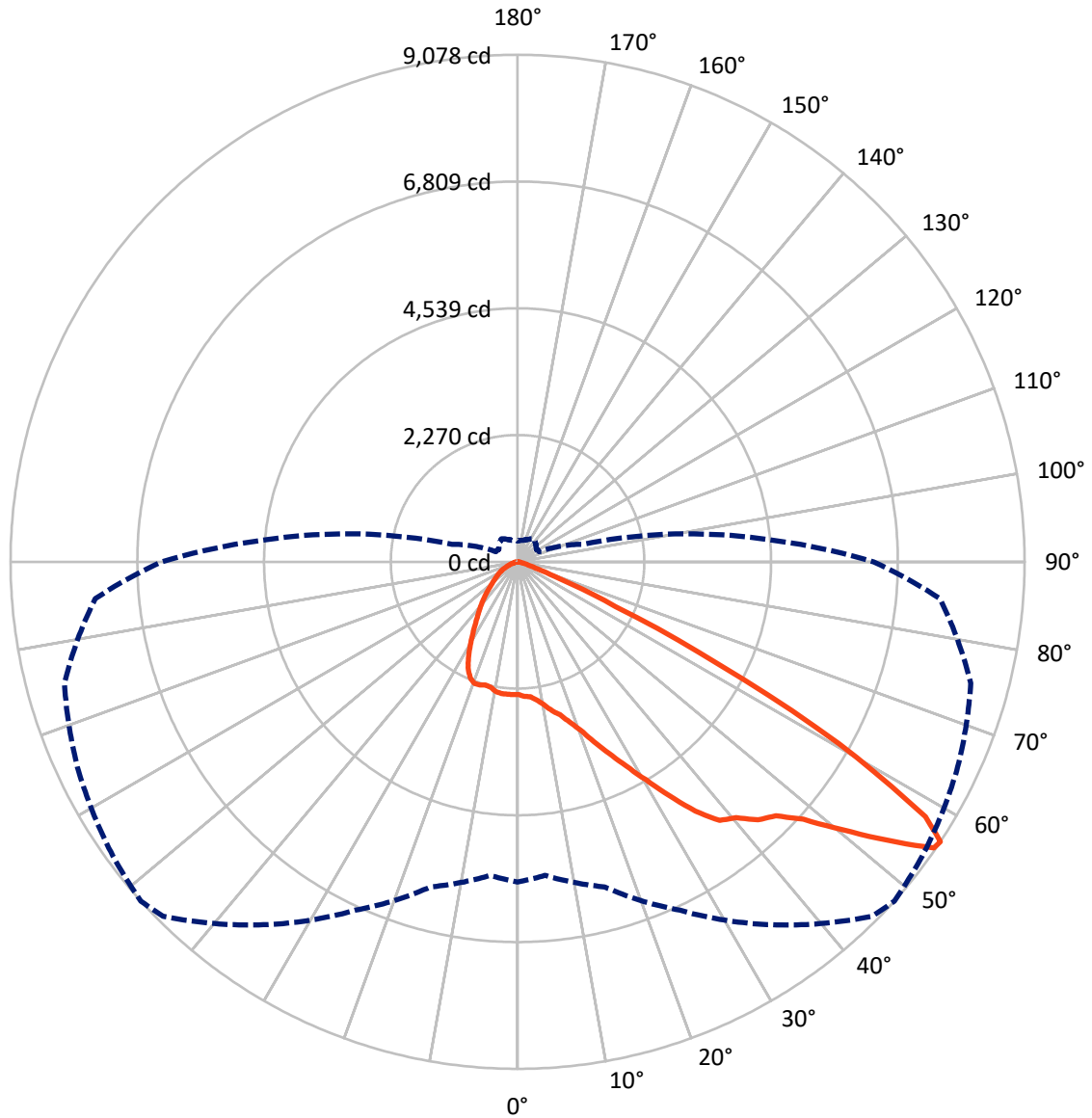
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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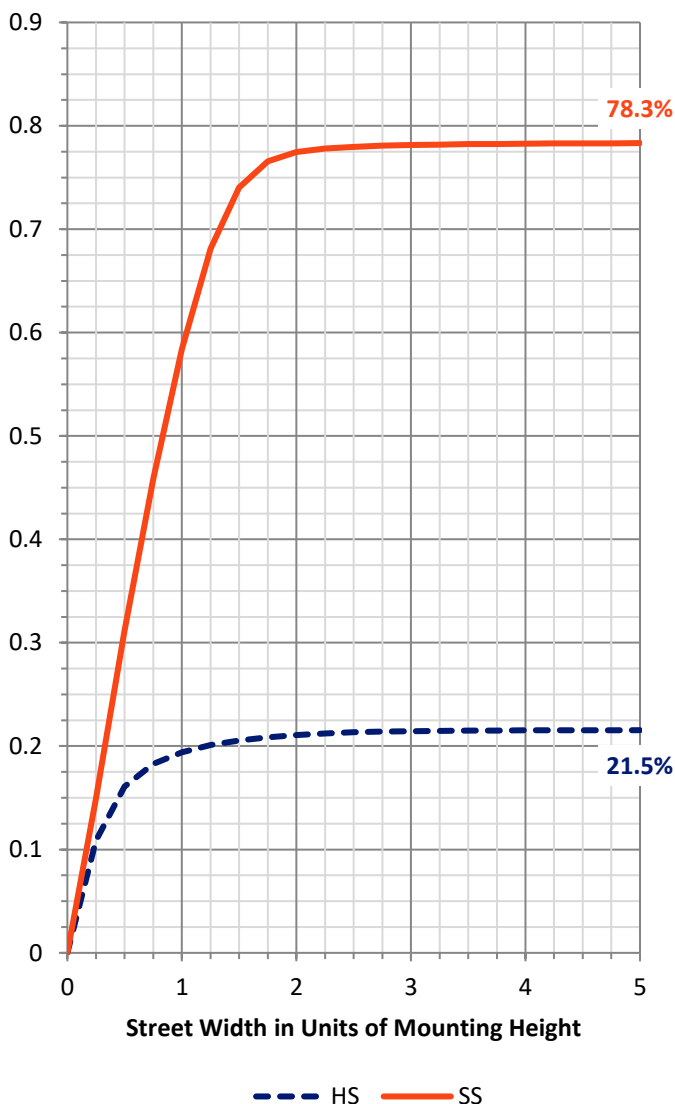
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2708.7	0.0	2708.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9746.3	0.0	9746.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	12455.0	0.0	12455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	1.9
10°-20°	740.6	5.9
20°-30°	1343.3	10.8
30°-40°	2110.0	16.9
40°-50°	3078.1	24.7
50°-60°	3708.5	29.8
60°-70°	1085.8	8.7
70°-80°	137.7	1.1
80°-90°	19.3	0.2
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°	12455.0	100.0
0°-180°	12455.0	100.0

Coefficient of Utilization

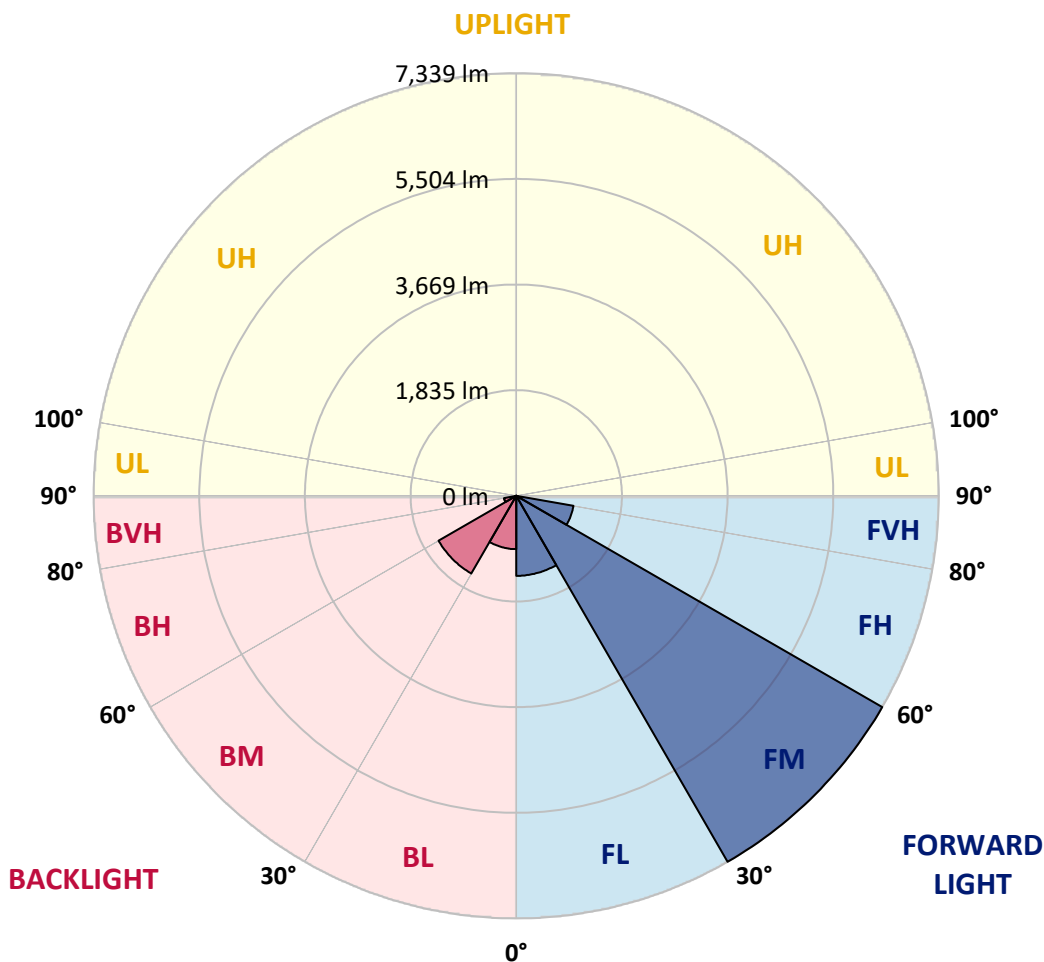


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.7	11.2			
FM (30°-60°)	7338.5	58.9			
FH (60°-80°)	1008.3	8.1			G1/1800
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	925.8	7.4	B2/1000		
BM (30°-60°)	1558.0	12.5	B2/2500		
BH (60°-80°)	215.2	1.7	B1/500		G1/500
BVH (80°-90°)	9.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9
2.5°	2422.0	2410.7	2410.7	2392.5	2412.9	2403.9	2410.7	2388.0	2410.7	2376.6	2403.9
5°	2433.3	2435.6	2426.5	2437.9	2437.9	2451.5	2428.8	2449.2	2460.6	2435.6	2424.3
7.5°	2492.3	2496.8	2494.6	2485.5	2503.6	2501.4	2499.1	2483.2	2487.8	2478.7	2465.1
10°	2608.0	2605.7	2617.0	2594.4	2580.7	2596.6	2601.2	2576.2	2558.1	2551.3	2508.2
12.5°	2775.8	2748.6	2732.7	2710.0	2716.8	2694.1	2735.0	2691.9	2682.8	2642.0	2598.9
15°	2911.8	2907.3	2909.6	2873.3	2832.5	2841.5	2841.5	2818.9	2805.3	2755.4	2694.1
17.5°	3190.8	3095.5	3115.9	3070.6	3036.6	3034.3	3013.9	3018.4	2982.1	2877.8	2784.8
20°	3408.5	3367.7	3335.9	3258.8	3206.7	3222.5	3213.5	3190.8	3179.4	3043.4	2911.8
22.5°	3603.5	3617.1	3565.0	3544.6	3472.0	3478.8	3496.9	3476.5	3390.3	3249.7	3054.7
25°	3877.9	3862.0	3791.7	3766.8	3698.8	3723.7	3794.0	3778.1	3723.7	3469.7	3165.8
27.5°	4202.2	4147.8	4161.4	4048.0	3982.2	4052.5	4136.4	4215.8	4061.6	3728.2	3297.4
30°	4431.3	4374.6	4370.0	4365.5	4349.6	4431.3	4528.8	4601.3	4476.6	3986.8	3515.1
32.5°	4544.6	4558.3	4596.8	4583.2	4721.5	4889.4	4991.4	5095.7	4939.2	4408.6	3803.1
35°	4846.3	4760.1	4846.3	4855.3	4998.2	5354.2	5483.5	5733.0	5694.4	5005.0	4154.6
37.5°	5023.2	5016.3	5027.7	5113.9	5252.2	5692.1	5875.8	6068.6	5996.0	5363.3	4592.3
40°	5315.7	5333.8	5331.6	5397.3	5549.3	5946.1	6021.0	6177.5	6184.3	5860.0	5236.3
42.5°	5785.1	5712.6	5664.9	5733.0	5946.1	6166.1	6315.8	6284.0	6508.6	6463.2	6064.1
45°	6206.9	6250.0	6179.7	6293.1	6370.2	6488.1	6483.6	6551.6	6837.4	7052.8	6687.7
47.5°	6601.5	6628.7	6662.8	6739.9	6907.7	6925.8	6887.3	6857.8	7252.4	7474.6	7170.7
50°	6837.4	6862.3	7021.1	7159.4	7472.4	7513.2	7535.9	7461.0	7728.6	7753.6	7626.6
52.5°	6773.9	6801.1	7023.3	7479.2	7978.1	8352.3	8284.2	8157.2	8141.4	8238.9	8048.4
55°	6211.5	6186.5	6492.7	7202.5	8136.8	9034.9	9043.9	8910.1	8653.9	8588.1	7984.9
56°	5733.0	5635.5	6025.5	6882.7	7932.7	8975.9	9078.0	8935.1	8694.7	8399.9	7592.6
57.5°	4696.6	4789.6	5177.4	5887.2	7227.4	8551.8	8610.8	8576.8	8395.4	7901.0	6680.9
60°	2589.8	2753.1	3095.5	3964.1	5145.6	6563.0	6610.6	6887.3	6921.3	6050.5	4596.8
62.5°	1099.9	1081.7	1437.8	2077.3	2930.0	3961.8	4050.3	4333.7	4385.9	3487.9	2306.3
65°	446.8	471.7	650.9	1045.5	1548.9	1805.2	1929.9	2022.9	2195.2	1440.0	850.4
67.5°	294.8	292.5	383.3	596.4	834.5	805.1	805.1	850.4	786.9	587.4	367.4
70°	210.9	217.7	274.4	412.7	519.3	385.5	369.6	353.8	401.4	387.8	297.1
72.5°	138.3	147.4	183.7	247.2	269.9	210.9	210.9	254.0	331.1	313.0	242.7
75°	90.7	93.0	113.4	142.9	133.8	108.9	120.2	170.1	240.4	231.3	172.4
77.5°	61.2	63.5	77.1	93.0	74.8	61.2	65.8	86.2	117.9	117.9	90.7
80°	22.7	24.9	31.7	29.5	34.0	43.1	47.6	59.0	70.3	70.3	61.2
82.5°	0.0	2.3	6.8	15.9	24.9	34.0	38.6	45.4	52.2	59.0	56.7
85°	0.0	2.3	6.8	11.3	18.1	20.4	22.7	15.9	13.6	13.6	11.3
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.5	2.3	2.3
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°	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9
2.5°	2378.9	2376.6	2376.6	2369.8	2383.4	2376.6	2381.2	2378.9	2349.4	2372.1	2356.2
5°	2403.9	2419.7	2394.8	2390.2	2372.1	2378.9	2378.9	2356.2	2376.6	2374.4	2369.8
7.5°	2467.4	2440.1	2412.9	2385.7	2381.2	2374.4	2349.4	2340.4	2356.2	2338.1	2365.3
10°	2494.6	2499.1	2458.3	2422.0	2388.0	2340.4	2306.3	2285.9	2261.0	2288.2	2304.1
12.5°	2619.3	2573.9	2503.6	2446.9	2331.3	2283.7	2249.6	2240.6	2283.7	2292.7	2276.9
15°	2662.4	2655.6	2564.9	2437.9	2317.7	2261.0	2267.8	2249.6	2254.2	2231.5	2236.0
17.5°	2750.8	2673.7	2567.1	2408.4	2315.4	2301.8	2261.0	2188.4	2147.6	2129.5	2145.3
20°	2848.3	2773.5	2619.3	2419.7	2335.8	2299.5	2165.7	2077.3	1993.4	1948.0	1950.3
22.5°	2934.5	2841.5	2596.6	2424.3	2354.0	2204.3	2043.3	1868.7	1764.3	1694.0	1696.3
25°	3038.8	2907.3	2605.7	2433.3	2306.3	2052.3	1821.0	1651.0	1526.2	1478.6	1494.5
27.5°	3097.8	2948.1	2655.6	2453.7	2181.6	1836.9	1587.5	1428.7	1356.1	1333.5	1331.2
30°	3274.7	3038.8	2716.8	2412.9	1973.0	1605.6	1374.3	1276.8	1206.5	1186.1	1190.6
32.5°	3537.8	3204.4	2796.2	2306.3	1759.8	1399.2	1235.9	1163.4	1097.6	1059.1	1054.5
35°	3757.7	3487.9	2880.1	2140.8	1512.6	1240.5	1138.4	1047.7	947.9	904.8	893.5
37.5°	4177.3	3807.6	2861.9	1891.3	1276.8	1122.6	1034.1	923.0	836.8	777.9	771.0
40°	4735.1	4181.8	2773.5	1587.5	1102.1	1018.2	923.0	816.4	709.8	659.9	655.4
42.5°	5413.2	4639.9	2612.5	1279.0	927.5	913.9	827.7	705.3	610.0	573.8	576.0
45°	5964.3	5032.2	2449.2	1027.3	798.3	811.9	737.0	621.4	555.6	526.1	526.1
47.5°	6454.1	5297.6	2272.3	848.2	678.1	709.8	644.1	576.0	519.3	496.6	492.1
50°	6925.8	5567.4	2095.4	687.1	578.3	610.0	603.2	548.8	503.4	476.2	478.5
52.5°	7220.6	5610.5	1870.9	562.4	505.7	542.0	564.7	514.8	464.9	449.0	444.5
55°	6860.1	5054.9	1451.4	462.6	428.6	476.2	519.3	462.6	424.1	396.9	394.6
56°	6374.8	4519.7	1213.3	426.3	405.9	458.1	503.4	442.2	399.1	383.3	371.9
57.5°	5397.3	3698.8	895.8	378.7	376.5	426.3	478.5	421.8	371.9	358.3	358.3
60°	3365.4	2081.8	542.0	317.5	326.6	378.7	430.9	376.5	331.1	331.1	337.9
62.5°	1533.0	866.3	328.8	269.9	281.2	326.6	383.3	340.2	315.2	340.2	344.7
65°	521.6	374.2	238.1	215.4	222.2	269.9	328.8	344.7	342.4	358.3	367.4
67.5°	292.5	240.4	199.6	179.2	174.6	199.6	269.9	344.7	331.1	324.3	328.8
70°	247.2	204.1	176.9	158.7	151.9	161.0	208.6	260.8	233.6	226.8	222.2
72.5°	199.6	170.1	154.2	142.9	122.5	104.3	95.2	99.8	111.1	117.9	129.3
75°	140.6	129.3	129.3	115.7	88.4	65.8	52.2	43.1	29.5	20.4	22.7
77.5°	79.4	79.4	81.6	70.3	56.7	43.1	31.7	22.7	11.3	4.5	2.3
80°	54.4	59.0	63.5	56.7	47.6	38.6	27.2	15.9	6.8	0.0	0.0
82.5°	54.4	61.2	65.8	56.7	47.6	36.3	27.2	15.9	6.8	2.3	0.0
85°	11.3	13.6	15.9	18.1	27.2	27.2	20.4	13.6	6.8	2.3	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0
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)