

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: P528659

Luminaire Tested: **GALN-SA3D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528659
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-SA3D-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 12559 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

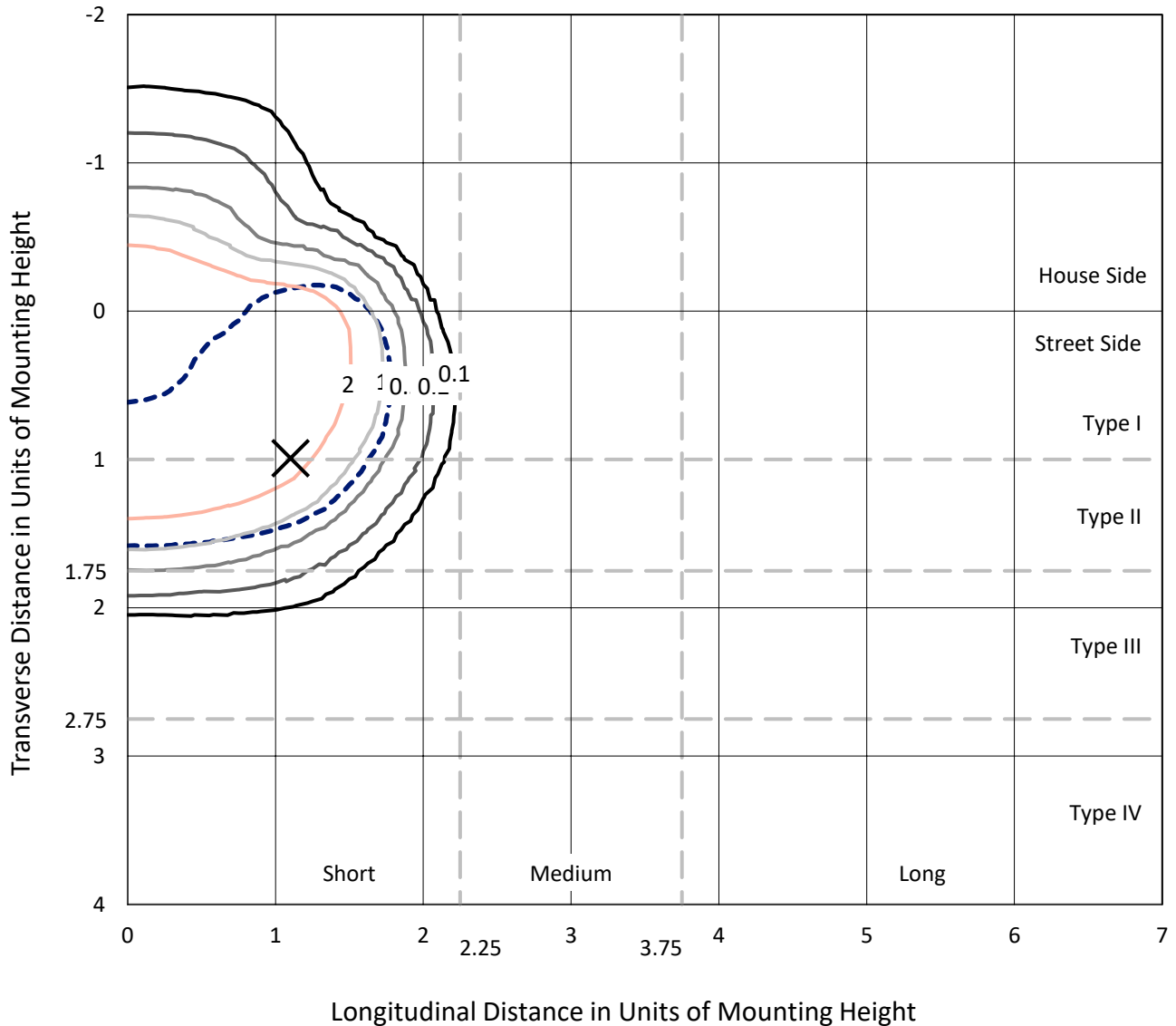
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

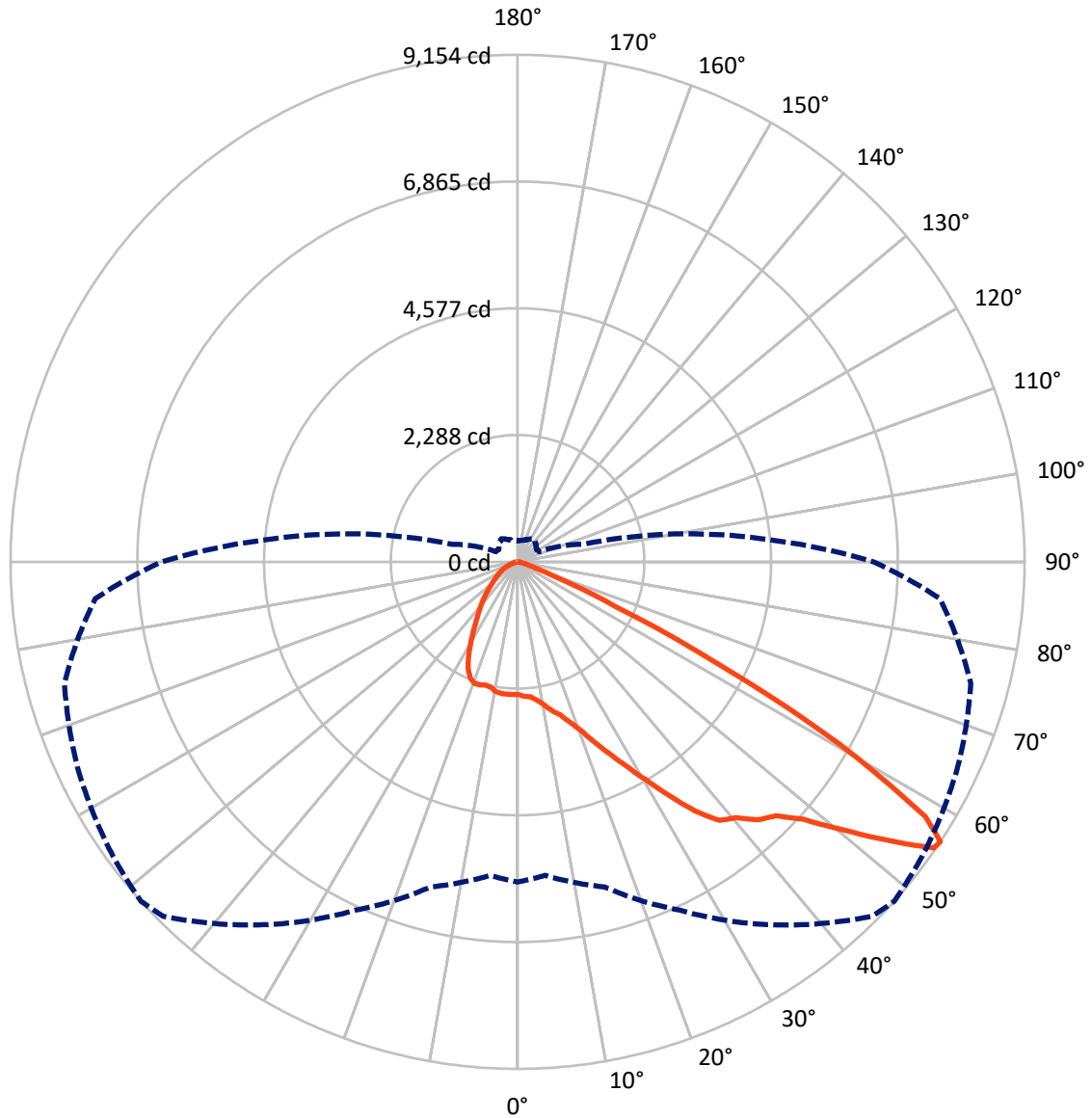
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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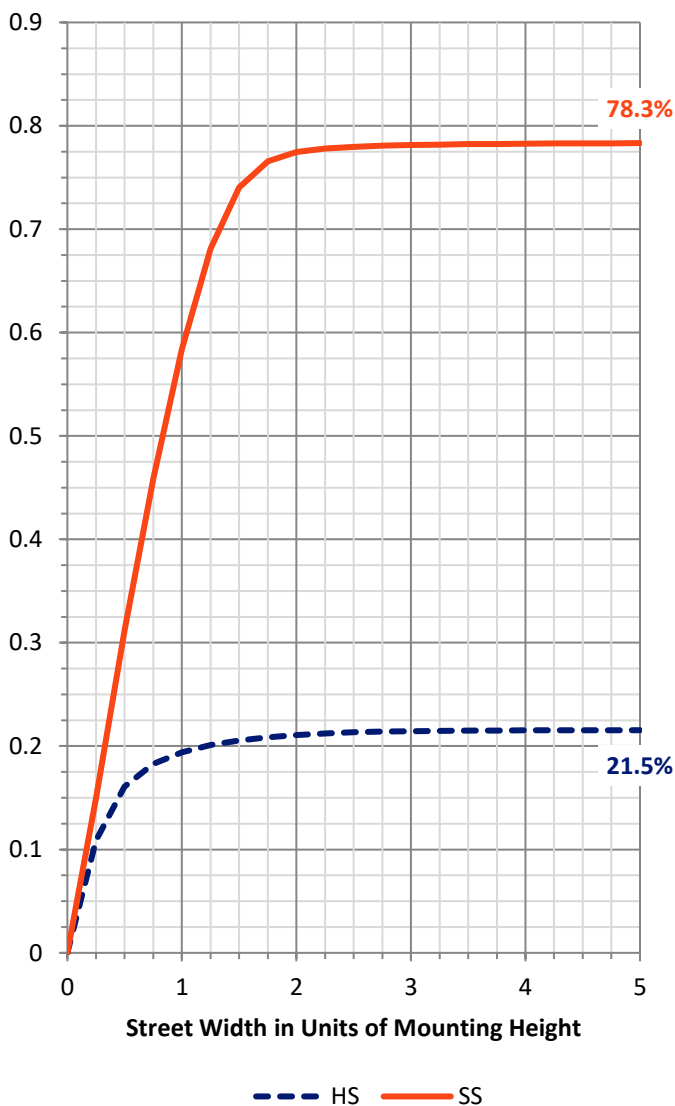
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2731.3	0.0	2731.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9827.7	0.0	9827.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	12559.0	0.0	12559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.9
10°-20°	746.8	5.9
20°-30°	1354.5	10.8
30°-40°	2127.6	16.9
40°-50°	3103.8	24.7
50°-60°	3739.5	29.8
60°-70°	1094.9	8.7
70°-80°	138.9	1.1
80°-90°	19.5	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°	12559.0	100.0
0°-180°	12559.0	100.0

Coefficient of Utilization



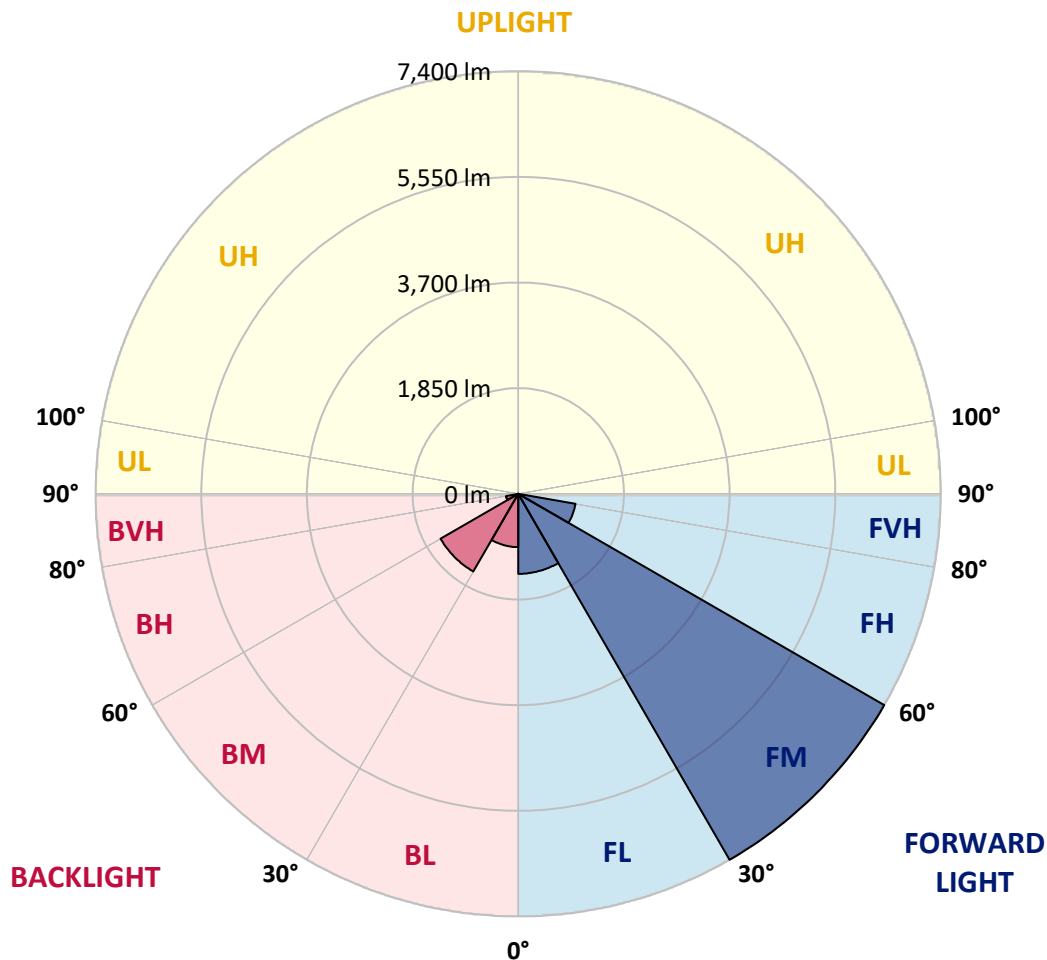
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1401.3	11.2			
FM (30°-60°)	7399.8	58.9			
FH (60°-80°)	1016.7	8.1			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	933.6	7.4	B2/1000		
BM (30°-60°)	1571.1	12.5	B2/2500		
BH (60°-80°)	217.0	1.7	B1/500		G1/500
BVH (80°-90°)	9.7	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°	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8
2.5°	2442.2	2430.8	2430.8	2412.5	2433.1	2423.9	2430.8	2407.9	2430.8	2396.5	2423.9
5°	2453.7	2455.9	2446.8	2458.2	2458.2	2471.9	2449.1	2469.7	2481.1	2455.9	2444.5
7.5°	2513.1	2517.7	2515.4	2506.3	2524.5	2522.3	2520.0	2504.0	2508.5	2499.4	2485.7
10°	2629.7	2627.4	2638.9	2616.0	2602.3	2618.3	2622.9	2597.7	2579.4	2572.6	2529.1
12.5°	2799.0	2771.5	2755.5	2732.6	2739.5	2716.6	2757.8	2714.3	2705.2	2664.0	2620.6
15°	2936.2	2931.6	2933.9	2897.3	2856.1	2865.3	2865.3	2842.4	2828.7	2778.4	2716.6
17.5°	3217.4	3121.4	3142.0	3096.2	3061.9	3059.6	3039.1	3043.6	3007.0	2901.9	2808.1
20°	3436.9	3395.8	3363.8	3286.0	3233.4	3249.4	3240.3	3217.4	3206.0	3068.8	2936.2
22.5°	3633.6	3647.3	3594.7	3574.2	3501.0	3507.8	3526.1	3505.5	3418.7	3276.9	3080.2
25°	3910.3	3894.3	3823.4	3798.3	3729.6	3754.8	3825.7	3809.7	3754.8	3498.7	3192.3
27.5°	4237.3	4182.4	4196.1	4081.8	4015.5	4086.4	4171.0	4251.0	4095.5	3759.4	3324.9
30°	4468.3	4411.1	4406.5	4401.9	4385.9	4468.3	4566.6	4639.8	4514.0	4020.1	3544.4
32.5°	4582.6	4596.3	4635.2	4621.5	4761.0	4930.2	5033.1	5138.3	4980.5	4445.4	3834.8
35°	4886.7	4799.8	4886.7	4895.9	5039.9	5399.0	5529.3	5780.8	5742.0	5046.8	4189.3
37.5°	5065.1	5058.2	5069.7	5156.6	5296.1	5739.7	5924.9	6119.3	6046.1	5408.1	4630.6
40°	5360.1	5378.4	5376.1	5442.4	5595.6	5995.8	6071.3	6229.0	6235.9	5908.9	5280.0
42.5°	5833.4	5760.3	5712.2	5780.8	5995.8	6217.6	6368.5	6336.5	6562.9	6517.2	6114.7
45°	6258.8	6302.2	6231.3	6345.7	6423.4	6542.3	6537.7	6606.3	6894.5	7111.7	6743.6
47.5°	6656.7	6684.1	6718.4	6796.1	6965.4	6983.7	6944.8	6915.1	7312.9	7537.0	7230.6
50°	6894.5	6919.6	7079.7	7219.2	7534.8	7575.9	7598.8	7523.3	7793.2	7818.3	7690.3
52.5°	6830.4	6857.9	7082.0	7541.6	8044.7	8422.0	8353.4	8225.3	8209.3	8307.7	8115.6
55°	6263.3	6238.2	6546.9	7262.6	8204.8	9110.3	9119.5	8984.5	8726.1	8659.8	8051.6
56°	5780.8	5682.5	6075.8	6940.2	7999.0	9050.9	9153.8	9009.7	8767.3	8470.0	7656.0
57.5°	4735.8	4829.6	5220.6	5936.3	7287.8	8623.2	8682.7	8648.4	8465.5	7966.9	6736.7
60°	2611.4	2776.1	3121.4	3997.2	5188.6	6617.8	6665.8	6944.8	6979.1	6101.0	4635.2
62.5°	1109.1	1090.8	1449.8	2094.6	2954.4	3994.9	4084.1	4369.9	4422.5	3517.0	2325.6
65°	450.5	475.6	656.3	1054.2	1561.8	1820.2	1946.0	2039.8	2213.5	1452.1	857.5
67.5°	297.3	295.0	386.5	601.4	841.5	811.8	811.8	857.5	793.5	592.3	370.4
70°	212.7	219.5	276.7	416.2	523.7	388.7	372.7	356.7	404.8	391.0	299.6
72.5°	139.5	148.6	185.2	249.3	272.1	212.7	212.7	256.1	333.9	315.6	244.7
75°	91.5	93.8	114.3	144.1	134.9	109.8	121.2	171.5	242.4	233.2	173.8
77.5°	61.7	64.0	77.7	93.8	75.5	61.7	66.3	86.9	118.9	118.9	91.5
80°	22.9	25.2	32.0	29.7	34.3	43.4	48.0	59.5	70.9	70.9	61.7
82.5°	0.0	2.3	6.9	16.0	25.2	34.3	38.9	45.7	52.6	59.5	57.2
85°	0.0	2.3	6.9	11.4	18.3	20.6	22.9	16.0	13.7	13.7	11.4
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	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°	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8	2398.8
2.5°	2398.8	2396.5	2396.5	2389.6	2403.3	2396.5	2401.1	2398.8	2369.0	2391.9	2375.9
5°	2423.9	2439.9	2414.8	2410.2	2391.9	2398.8	2398.8	2375.9	2396.5	2394.2	2389.6
7.5°	2488.0	2460.5	2433.1	2405.6	2401.1	2394.2	2369.0	2359.9	2375.9	2357.6	2385.1
10°	2515.4	2520.0	2478.8	2442.2	2407.9	2359.9	2325.6	2305.0	2279.9	2307.3	2323.3
12.5°	2641.2	2595.4	2524.5	2467.4	2350.8	2302.7	2268.4	2259.3	2302.7	2311.9	2295.9
15°	2684.6	2677.8	2586.3	2458.2	2337.0	2279.9	2286.7	2268.4	2273.0	2250.1	2254.7
17.5°	2773.8	2696.0	2588.6	2428.5	2334.7	2321.0	2279.9	2206.7	2165.5	2147.2	2163.2
20°	2872.1	2796.7	2641.2	2439.9	2355.3	2318.7	2183.8	2094.6	2010.0	1964.3	1966.6
22.5°	2959.0	2865.3	2618.3	2444.5	2373.6	2222.7	2060.3	1884.3	1779.1	1708.2	1710.5
25°	3064.2	2931.6	2627.4	2453.7	2325.6	2069.5	1836.2	1664.7	1539.0	1490.9	1507.0
27.5°	3123.7	2972.7	2677.8	2474.2	2199.8	1852.2	1600.7	1440.6	1367.5	1344.6	1342.3
30°	3302.0	3064.2	2739.5	2433.1	1989.5	1619.0	1385.8	1287.4	1216.5	1196.0	1200.5
32.5°	3567.3	3231.1	2819.5	2325.6	1774.5	1410.9	1246.3	1173.1	1106.8	1067.9	1063.3
35°	3789.1	3517.0	2904.1	2158.7	1525.2	1250.8	1147.9	1056.5	955.9	912.4	901.0
37.5°	4212.1	3839.4	2885.8	1907.1	1287.4	1131.9	1042.7	930.7	843.8	784.3	777.5
40°	4774.7	4216.7	2796.7	1600.7	1111.3	1026.7	930.7	823.2	715.7	665.4	660.9
42.5°	5458.4	4678.6	2634.3	1289.7	935.3	921.6	834.7	711.2	615.1	578.5	580.8
45°	6014.1	5074.2	2469.7	1035.9	804.9	818.6	743.2	626.6	560.2	530.5	530.5
47.5°	6508.0	5341.8	2291.3	855.2	683.7	715.7	649.4	580.8	523.7	500.8	496.2
50°	6983.7	5613.9	2112.9	692.9	583.1	615.1	608.3	553.4	507.7	480.2	482.5
52.5°	7280.9	5657.4	1886.5	567.1	509.9	546.5	569.4	519.1	468.8	452.8	448.2
55°	6917.3	5097.1	1463.5	466.5	432.2	480.2	523.7	466.5	427.6	400.2	397.9
56°	6428.0	4557.4	1223.4	429.9	409.3	461.9	507.7	445.9	402.5	386.5	375.0
57.5°	5442.4	3729.6	903.3	381.9	379.6	429.9	482.5	425.3	375.0	361.3	361.3
60°	3393.5	2099.2	546.5	320.1	329.3	381.9	434.5	379.6	333.9	333.9	340.7
62.5°	1545.8	873.5	331.6	272.1	283.6	329.3	386.5	343.0	317.9	343.0	347.6
65°	525.9	377.3	240.1	217.2	224.1	272.1	331.6	347.6	345.3	361.3	370.4
67.5°	295.0	242.4	201.2	180.7	176.1	201.2	272.1	347.6	333.9	327.0	331.6
70°	249.3	205.8	178.4	160.1	153.2	162.4	210.4	263.0	235.5	228.7	224.1
72.5°	201.2	171.5	155.5	144.1	123.5	105.2	96.0	100.6	112.0	118.9	130.3
75°	141.8	130.3	130.3	116.6	89.2	66.3	52.6	43.4	29.7	20.6	22.9
77.5°	80.0	80.0	82.3	70.9	57.2	43.4	32.0	22.9	11.4	4.6	2.3
80°	54.9	59.5	64.0	57.2	48.0	38.9	27.4	16.0	6.9	0.0	0.0
82.5°	54.9	61.7	66.3	57.2	48.0	36.6	27.4	16.0	6.9	2.3	0.0
85°	11.4	13.7	16.0	18.3	27.4	27.4	20.6	13.7	6.9	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)