

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: P651046

Luminaire Tested: **GALN-SA7C-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29791.6 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

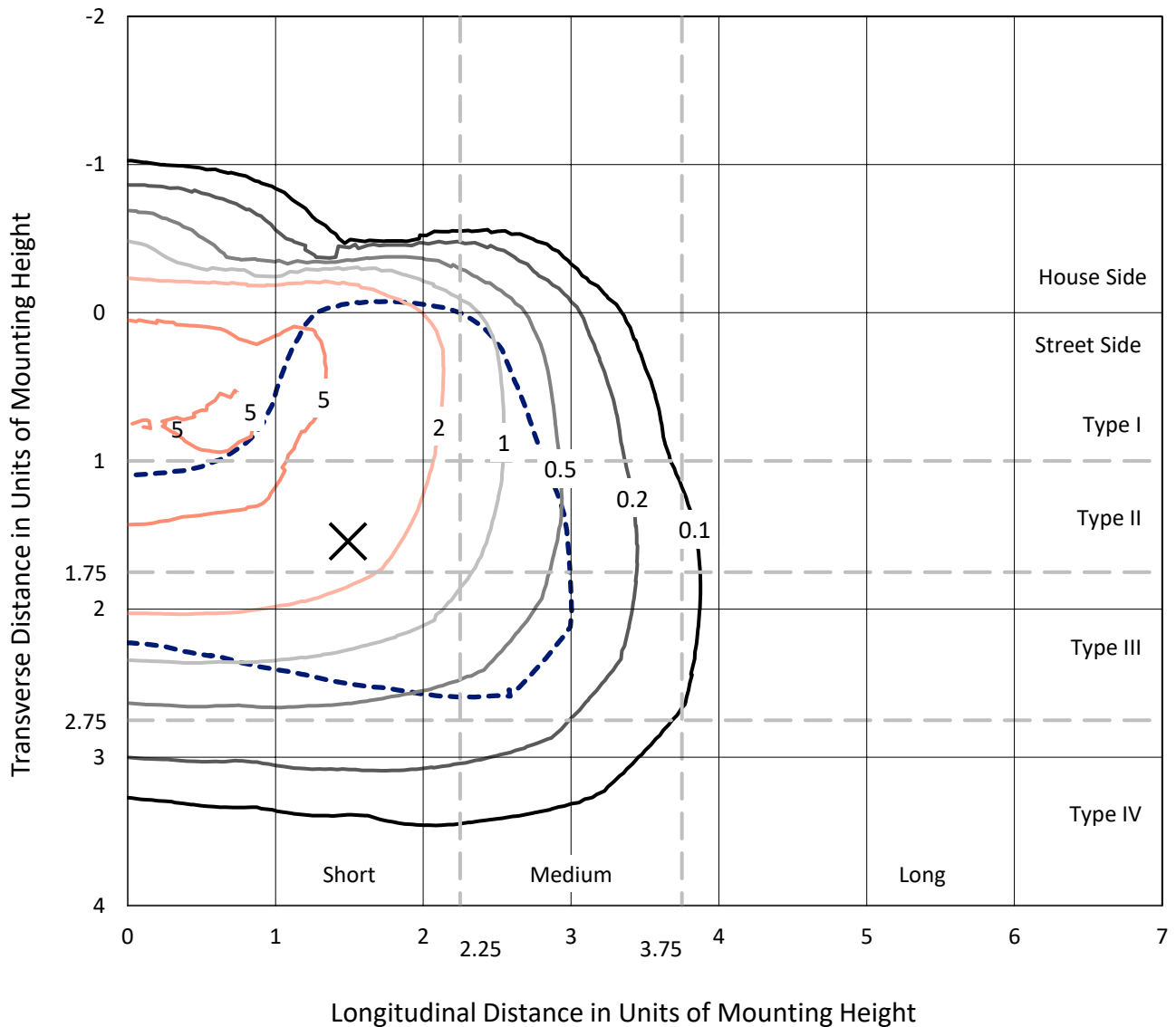
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

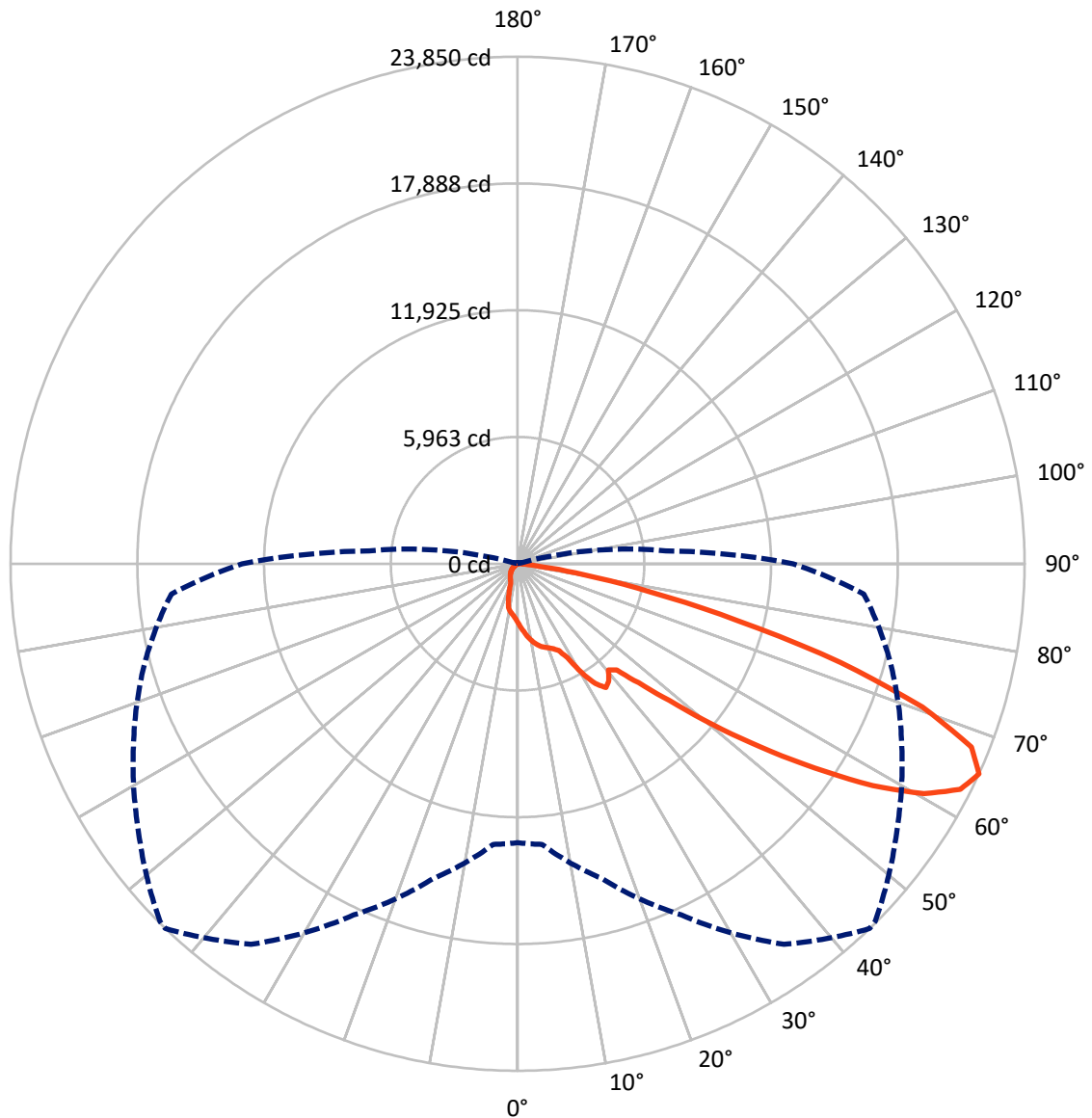
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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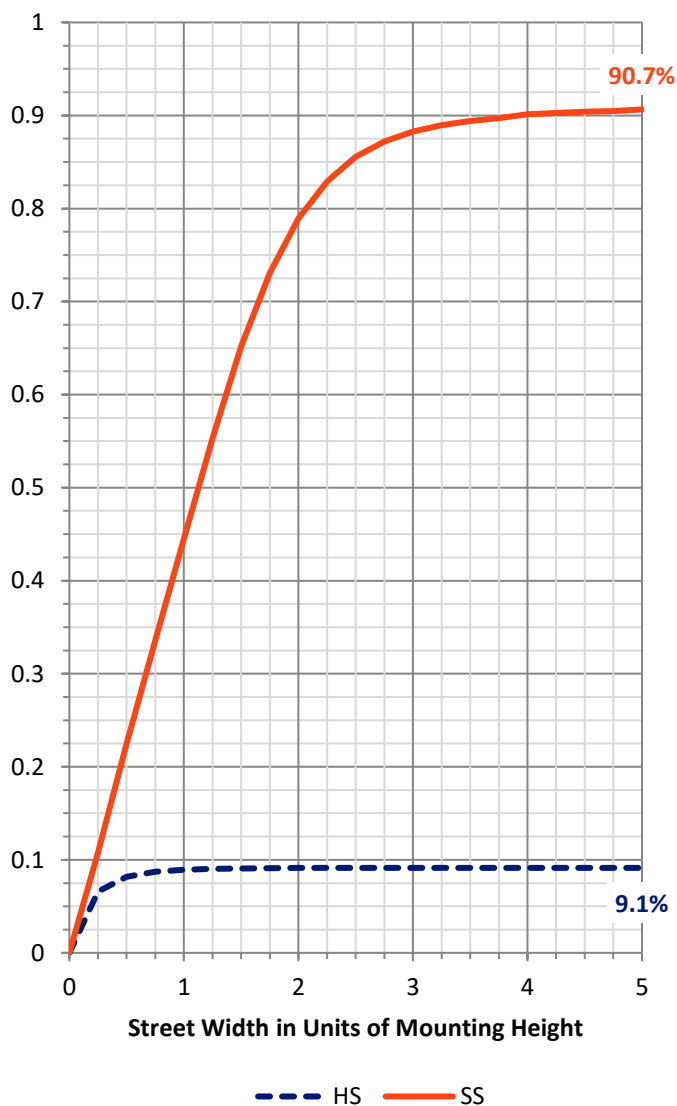
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2744.8	0.0	2744.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	27046.8	0.0	27046.8
	% Fixture	90.8	0.0	90.8
Total	Lumens	29791.6	0.0	29791.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	0.9
10°-20°	830.0	2.8
20°-30°	1407.4	4.7
30°-40°	2340.0	7.9
40°-50°	4085.7	13.7
50°-60°	7981.9	26.8
60°-70°	9260.9	31.1
70°-80°	3372.4	11.3
80°-90°	237.6	0.8
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°	29791.6	100.0
0°-180°	29791.6	100.0

Coefficient of Utilization



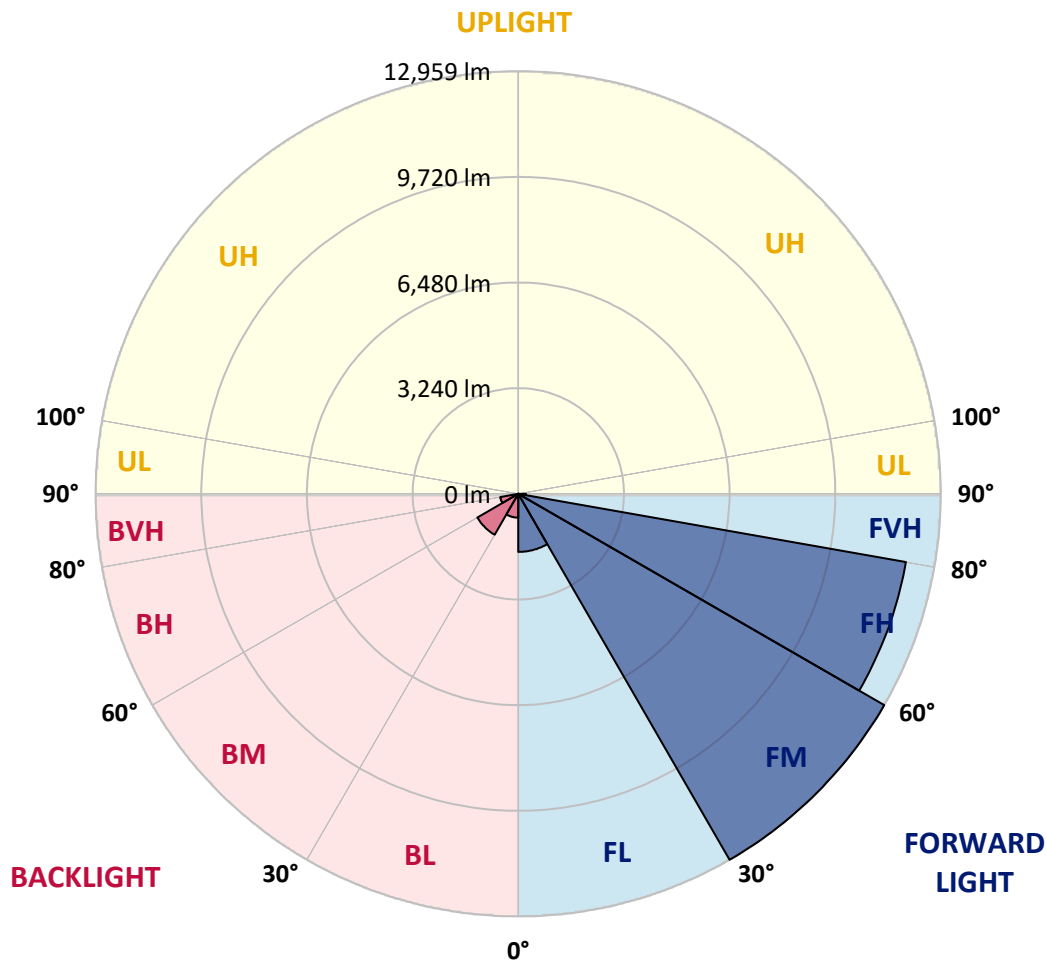
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.8	6.0			
FM (30°-60°)	12959.4	43.5			
FH (60°-80°)	12071.2	40.5			G5
FVH (80°-90°)	234.4	0.8			G3/500
BL (0°-30°)	731.3	2.5	B2/1000		
BM (30°-60°)	1448.2	4.9	B2/2500		
BH (60°-80°)	562.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7
2.5°	3121.0	3107.3	3100.5	3064.1	3036.8	3002.6	3002.6	2959.4	2909.3	2854.7	2804.6
5°	3469.3	3446.5	3417.0	3385.1	3321.4	3230.3	3230.3	3139.2	3034.5	2941.1	2838.7
7.5°	3803.9	3783.5	3733.4	3671.9	3567.2	3471.6	3464.8	3332.7	3207.5	3066.4	2920.7
10°	4097.6	4081.6	4038.4	3920.1	3810.7	3685.6	3683.2	3535.3	3389.7	3216.6	3036.8
12.5°	4302.5	4304.7	4247.8	4134.0	3992.9	3874.5	3865.4	3719.7	3567.2	3380.5	3159.7
15°	4448.1	4448.1	4389.0	4261.5	4134.0	4029.3	4020.2	3892.7	3735.6	3533.0	3294.0
17.5°	4489.2	4502.8	4439.1	4325.3	4222.8	4131.7	4129.5	4022.5	3897.3	3701.5	3430.6
20°	4473.2	4486.9	4436.8	4348.0	4277.4	4225.1	4218.3	4175.0	4058.9	3874.5	3576.3
22.5°	4439.1	4452.8	4416.3	4363.9	4329.8	4345.7	4334.3	4370.8	4309.3	4086.3	3749.3
25°	4445.9	4459.6	4432.2	4402.6	4432.2	4530.1	4559.7	4716.8	4662.2	4354.9	3936.0
27.5°	4659.9	4687.2	4648.5	4662.2	4766.9	4994.5	5051.5	5322.4	5081.0	4696.3	4227.4
30°	5135.7	5117.5	5044.6	5110.6	5474.8	5957.5	5941.5	5898.3	5520.4	5090.2	4573.4
32.5°	5568.2	5552.3	5547.7	5832.3	6492.4	6726.9	6715.5	6296.7	5914.2	5540.8	4914.8
35°	5743.4	5682.0	5668.3	6358.1	7462.2	7152.6	7082.0	6460.6	6392.3	6032.6	5263.1
37.5°	6271.6	6228.4	6016.6	6444.6	7075.2	6972.7	6918.2	6742.8	6902.2	6467.4	5657.0
40°	7359.8	7239.1	7047.8	6629.0	6526.6	6569.8	6624.5	7104.8	7505.4	7061.5	6182.8
42.5°	8711.9	8684.7	8329.5	7548.6	6781.5	6840.7	6911.3	7860.6	8372.7	7956.2	7041.0
45°	10335.0	10373.7	9861.6	8939.6	7933.4	7983.4	8086.0	8976.0	9547.4	9347.0	8391.0
47.5°	11810.2	11780.6	11607.6	10649.2	9720.4	9608.8	9775.0	10407.9	11172.8	11204.6	10066.4
50°	13294.4	13451.5	13194.3	12818.7	12128.9	11894.4	11833.0	12142.5	13308.1	13155.6	12078.8
52.5°	15427.5	15509.4	15026.8	14931.2	15088.3	14327.9	14266.5	14341.6	15384.2	14860.6	13585.9
55°	16768.3	16720.5	16540.6	17287.3	17908.8	16959.5	16882.1	16579.3	17107.5	16064.9	15035.9
57.5°	17191.7	17260.0	17678.8	19028.8	20499.4	19693.5	19552.4	18691.9	18350.5	17187.2	16369.9
60°	17002.7	17128.0	18031.7	20039.5	22079.2	21958.6	21837.9	20392.4	19242.8	18125.1	17305.5
62.5°	15657.4	15832.7	17278.2	19859.7	22614.2	23367.7	23217.5	21453.2	19836.9	18580.3	17469.4
65°	13121.5	13251.2	15327.3	18227.5	21853.9	23850.3	23795.7	21785.6	19930.3	18163.7	16347.1
67.5°	9353.9	9795.5	11719.2	15361.5	19604.7	23026.2	23119.6	21387.2	19053.9	16363.1	13538.0
70°	5880.0	6180.5	7560.1	10997.5	15716.5	20201.2	20508.5	19563.8	16536.1	12754.9	9062.5
72.5°	2804.6	3027.7	4011.1	6961.4	11093.1	15894.1	16137.7	16060.3	12786.8	8035.8	4675.8
75°	1249.7	1334.0	1914.5	3553.6	7161.7	10683.3	11313.9	11418.7	7990.3	3931.4	1818.9
77.5°	637.4	639.7	896.9	1721.0	3576.3	6374.0	6499.2	6865.8	4332.1	1732.4	632.9
80°	339.2	362.0	475.8	812.7	1855.3	3139.2	3123.3	3432.9	1921.3	849.1	211.7
82.5°	152.6	168.5	268.6	425.7	906.0	1190.6	1284.0	1404.6	824.1	541.8	93.4
85°	45.5	54.7	132.0	214.0	327.8	343.7	384.8	496.3	466.7	384.8	47.8
87.5°	6.8	6.8	54.7	59.2	47.8	61.5	63.7	70.6	150.3	141.1	25.1
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°	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7	2772.7
2.5°	2777.2	2761.3	2704.4	2656.6	2615.6	2590.6	2561.0	2542.8	2533.7	2526.9	2529.1
5°	2788.7	2749.9	2652.1	2574.6	2515.4	2451.8	2408.5	2383.5	2372.0	2353.9	2353.9
7.5°	2852.4	2790.9	2654.4	2536.0	2433.5	2347.0	2265.1	2235.5	2214.9	2210.4	2205.9
10°	2943.4	2866.0	2679.3	2515.4	2369.8	2251.4	2135.3	2032.9	1953.2	1905.4	1898.6
12.5°	3057.3	2945.7	2718.1	2501.8	2315.1	2105.7	1798.4	1591.3	1452.4	1409.1	1415.9
15°	3162.0	3041.3	2756.8	2490.5	2214.9	1746.0	1397.7	1161.0	1090.4	1083.6	1085.9
17.5°	3287.2	3143.7	2802.3	2474.5	1939.5	1334.0	1038.0	974.3	988.0	1010.7	1008.4
20°	3417.0	3253.1	2857.0	2378.9	1547.9	1003.9	917.4	924.3	944.7	965.2	969.8
22.5°	3555.8	3378.2	2920.7	2148.9	1181.4	874.1	869.6	878.7	899.2	922.0	926.5
25°	3747.0	3535.3	2968.5	1848.4	894.7	808.1	817.3	833.2	851.4	876.4	880.9
27.5°	3992.9	3747.0	2993.5	1456.9	774.0	748.9	751.3	774.0	796.8	819.6	819.6
30°	4311.6	3999.7	2943.4	1101.8	714.8	692.1	682.9	696.6	726.2	748.9	751.3
32.5°	4596.1	4238.7	2811.4	842.3	671.5	639.7	617.0	619.2	630.6	644.2	646.5
35°	4880.7	4470.9	2586.1	708.0	626.0	589.6	555.5	537.2	528.1	521.3	528.1
37.5°	5244.9	4760.1	2285.6	644.2	587.4	541.8	494.0	455.3	423.4	402.9	407.5
40°	5713.8	5160.7	1930.4	603.2	550.9	496.3	432.5	382.4	327.8	309.6	300.5
42.5°	6487.9	5768.5	1557.1	569.1	514.4	448.4	368.8	300.5	250.4	232.2	236.7
45°	7710.3	6535.7	1199.7	532.7	478.0	396.1	309.6	236.7	195.8	186.7	191.2
47.5°	9331.1	7528.2	924.3	491.7	432.5	339.2	243.6	186.7	161.6	159.4	157.1
50°	10856.4	8452.5	771.7	446.2	377.9	282.2	200.3	157.1	141.1	138.8	138.8
52.5°	12235.9	9114.8	628.3	393.8	318.7	232.2	168.5	138.8	125.2	118.4	118.4
55°	13462.9	9547.4	509.9	330.1	250.4	184.4	145.7	125.2	109.2	100.2	97.9
57.5°	14389.4	9599.8	382.4	264.1	186.7	143.4	125.2	109.2	91.1	79.6	75.1
60°	14785.5	9146.7	282.2	200.3	138.8	113.8	100.2	88.8	68.3	56.9	54.7
62.5°	14387.2	8265.8	209.4	152.6	107.0	84.3	70.6	66.0	47.8	34.1	31.9
65°	12959.8	6993.3	166.2	116.1	79.6	61.5	45.5	43.2	29.6	15.9	13.6
67.5°	10382.8	5477.1	132.0	86.5	56.9	41.0	29.6	27.3	15.9	4.5	4.5
70°	6752.0	3501.2	107.0	63.7	36.4	27.3	18.2	13.6	9.1	2.3	0.0
72.5°	3339.5	1636.8	86.5	50.1	25.1	13.6	6.8	4.5	6.8	0.0	0.0
75°	1295.3	582.7	63.7	34.1	13.6	6.8	4.5	0.0	2.3	0.0	0.0
77.5°	430.3	193.5	38.7	18.2	9.1	4.5	0.0	0.0	0.0	0.0	0.0
80°	159.4	75.1	20.5	11.4	4.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	63.7	29.6	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.9	18.2	9.1	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.8	13.6	9.1	6.8	4.5	2.3	0.0	0.0	0.0	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)