

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: P455147

Luminaire Tested: **GALN-SA6B-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455147
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-SA6B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA 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: 24409 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

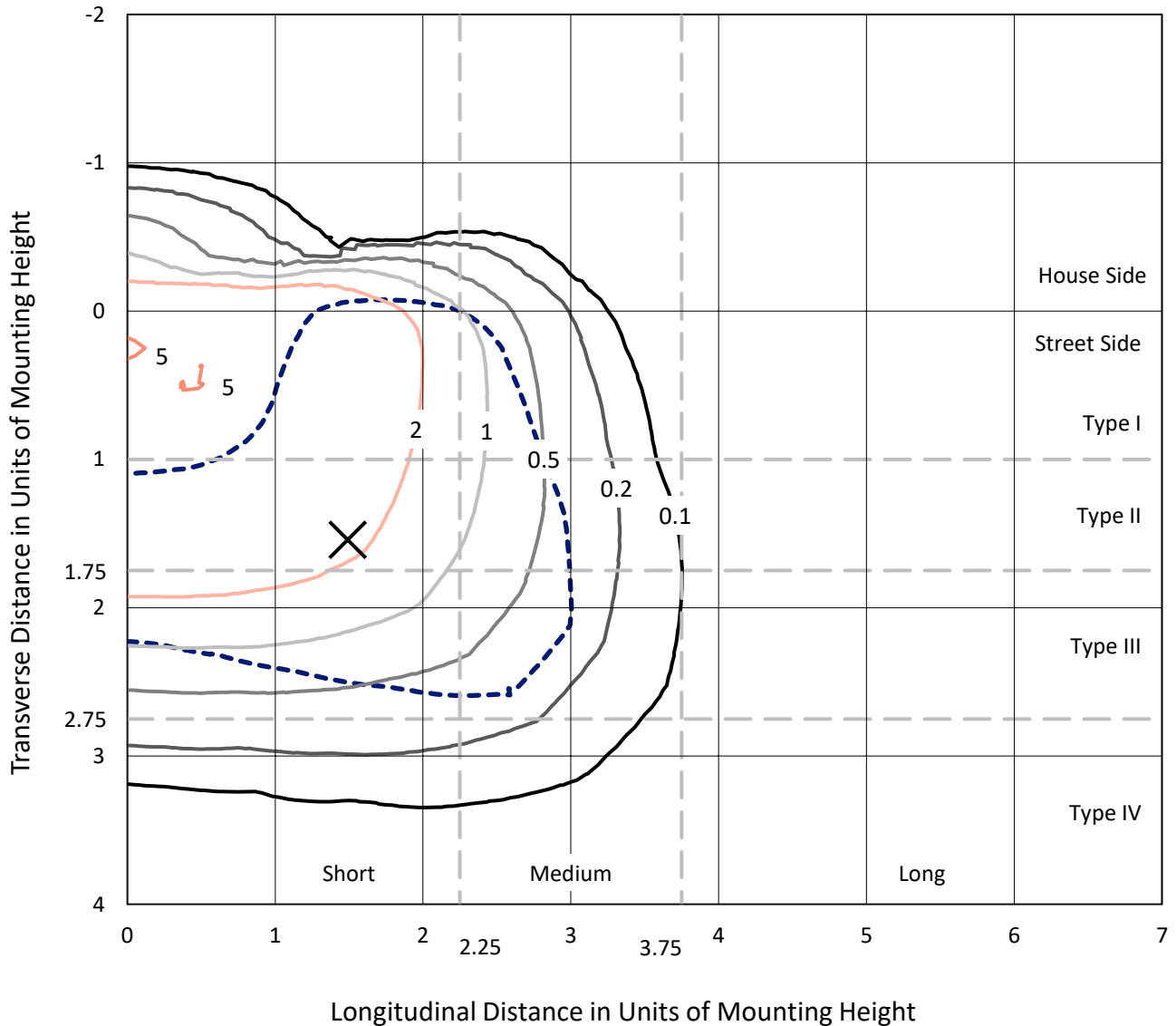
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455147
 CATALOG NUMBER: GALN-SA6B-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

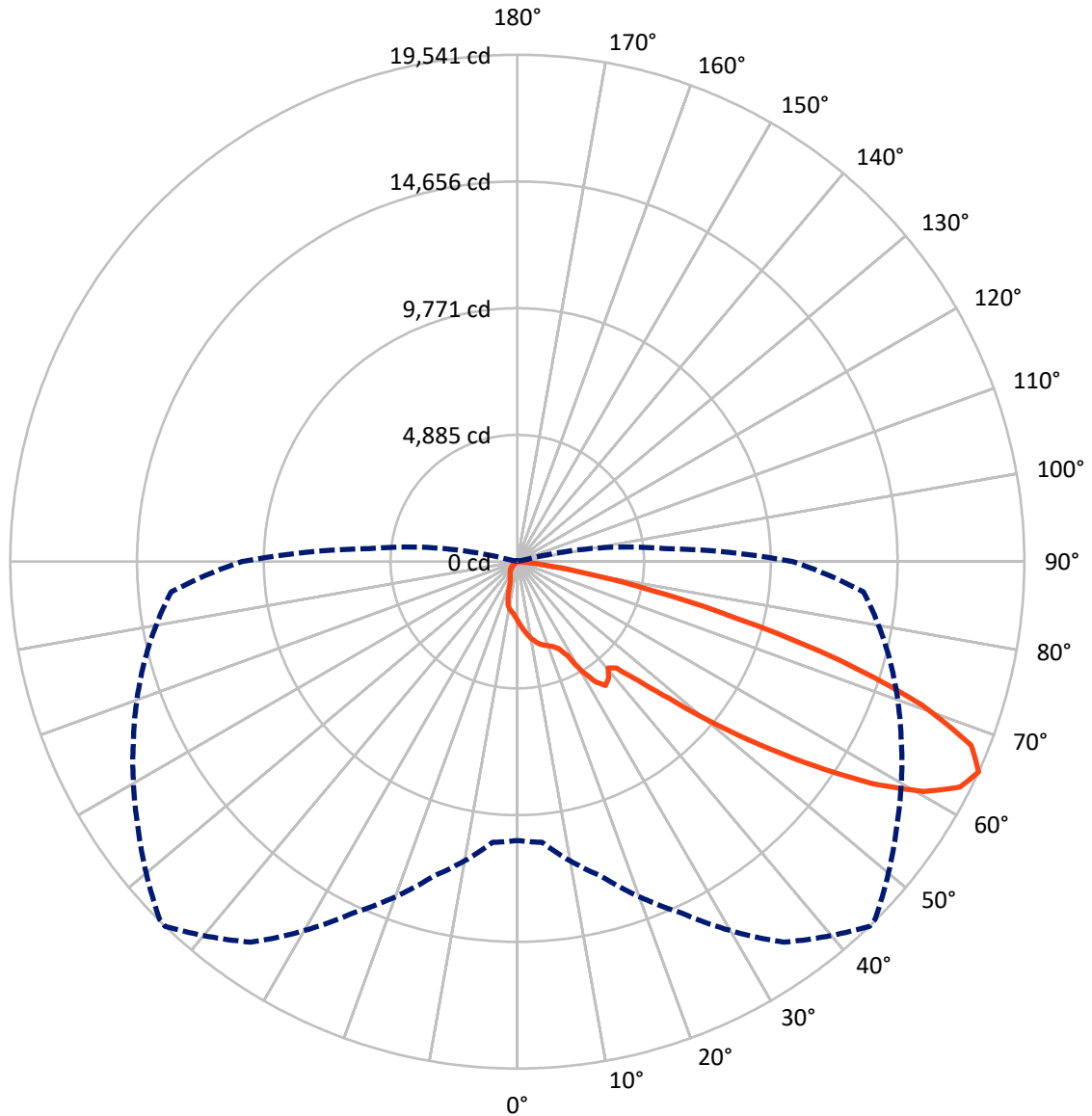
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P455147
CATALOG NUMBER: GALN-SA6B-740-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P455147
 CATALOG NUMBER: GALN-SA6B-740-U-T4W-HSS

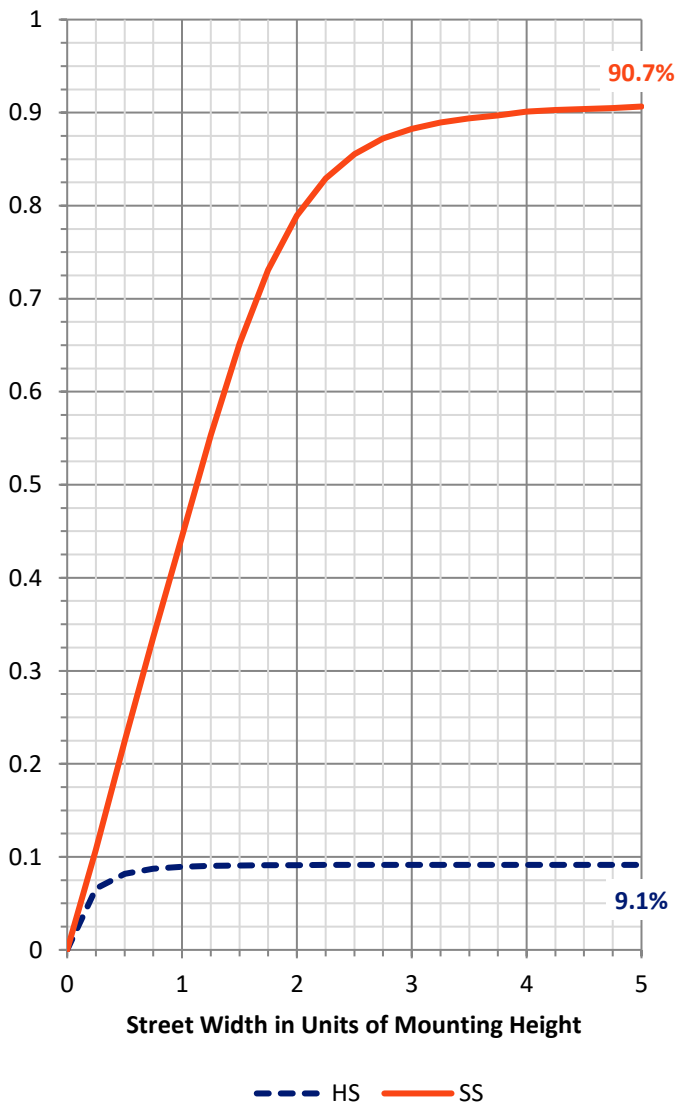
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.9	0.0	2248.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	22160.1	0.0	22160.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	24409.0	0.0	24409.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	0.9
10°-20°	680.0	2.8
20°-30°	1153.1	4.7
30°-40°	1917.2	7.9
40°-50°	3347.5	13.7
50°-60°	6539.8	26.8
60°-70°	7587.7	31.1
70°-80°	2763.1	11.3
80°-90°	194.7	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°	24409.0	100.0
0°-180°	24409.0	100.0



REPORT NUMBER: P455147

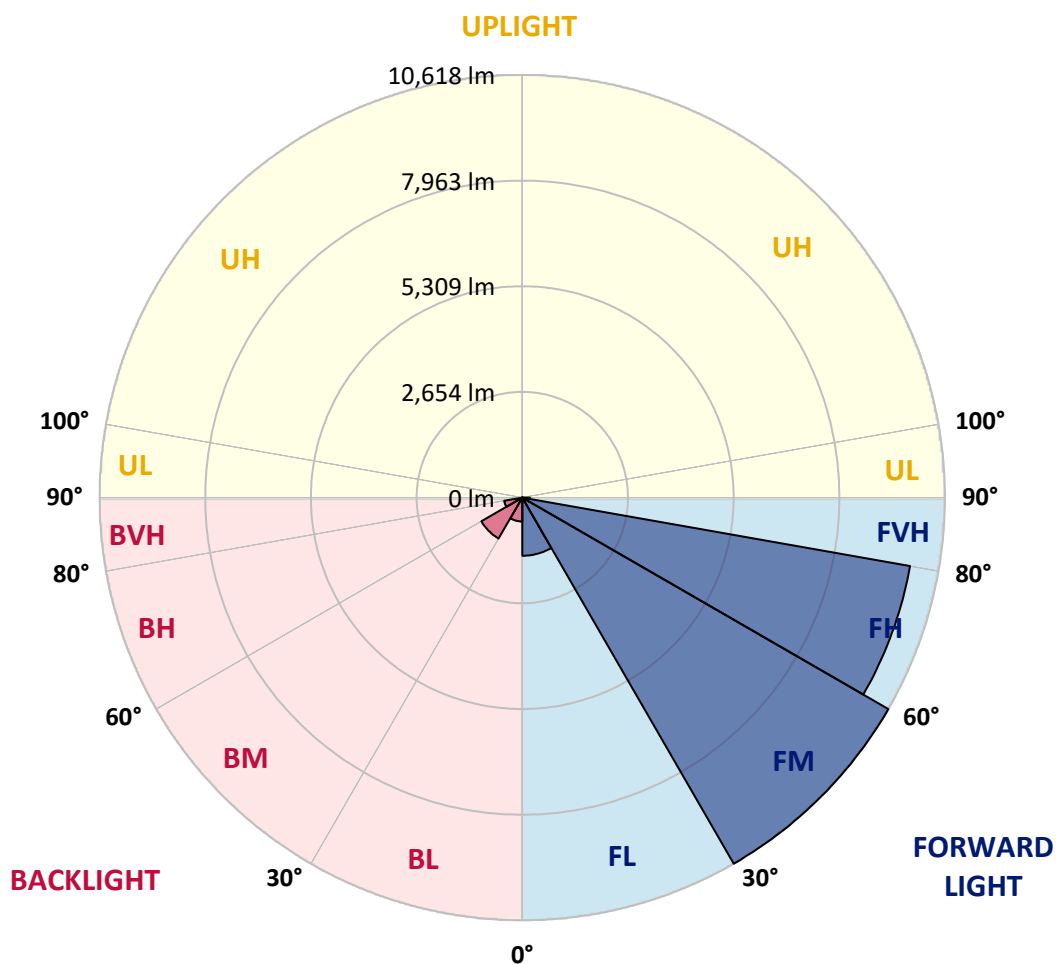
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1459.9	6.0			
FM (30°-60°)	10618.0	43.5			
FH (60°-80°)	9890.2	40.5			G4/12000
FVH (80°-90°)	192.0	0.8			G2/225
BL (0°-30°)	599.2	2.5	B2/1000		
BM (30°-60°)	1186.5	4.9	B2/2500		
BH (60°-80°)	460.5	1.9	B1/500		G1/500
BVH (80°-90°)	2.6	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-G4

Type III Short





REPORT NUMBER: P455147

CATALOG NUMBER: GALN-SA6B-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7
2.5°	2557.1	2545.9	2540.3	2510.5	2488.1	2460.1	2460.1	2424.7	2383.7	2338.9	2297.9
5°	2842.5	2823.8	2799.6	2773.5	2721.3	2646.6	2646.6	2572.0	2486.2	2409.8	2325.8
7.5°	3116.7	3099.9	3058.8	3008.5	2922.7	2844.4	2838.8	2730.6	2628.0	2512.4	2393.0
10°	3357.3	3344.2	3308.8	3211.8	3122.3	3019.7	3017.8	2896.6	2777.2	2635.5	2488.1
12.5°	3525.1	3527.0	3480.4	3387.1	3271.5	3174.5	3167.0	3047.7	2922.7	2769.7	2588.8
15°	3644.5	3644.5	3596.0	3491.6	3387.1	3301.3	3293.9	3189.4	3060.7	2894.7	2698.9
17.5°	3678.1	3689.3	3637.0	3543.8	3459.8	3385.2	3383.4	3295.7	3193.1	3032.7	2810.8
20°	3665.0	3676.2	3635.2	3562.4	3504.6	3461.7	3456.1	3420.7	3325.6	3174.5	2930.1
22.5°	3637.0	3648.2	3618.4	3575.5	3547.5	3560.6	3551.2	3581.1	3530.7	3347.9	3071.9
25°	3642.6	3653.8	3631.4	3607.2	3631.4	3711.6	3735.9	3864.6	3819.8	3568.0	3224.8
27.5°	3818.0	3840.3	3808.6	3819.8	3905.6	4092.1	4138.8	4360.7	4163.0	3847.8	3463.6
30°	4207.8	4192.9	4133.2	4187.3	4485.7	4881.1	4868.0	4832.6	4523.0	4170.5	3747.1
32.5°	4562.2	4549.1	4545.4	4778.5	5319.4	5511.5	5502.2	5159.0	4845.7	4539.8	4026.9
35°	4705.8	4655.4	4644.2	5209.4	6114.0	5860.3	5802.5	5293.3	5237.3	4942.6	4312.2
37.5°	5138.5	5103.0	4929.6	5280.2	5796.9	5712.9	5668.2	5524.6	5655.1	5298.9	4634.9
40°	6030.0	5931.2	5774.5	5431.3	5347.4	5382.8	5427.6	5821.1	6149.4	5785.7	5065.7
42.5°	7137.9	7115.5	6824.6	6184.8	5556.3	5604.8	5662.6	6440.4	6860.0	6518.7	5768.9
45°	8467.8	8499.5	8079.8	7324.4	6500.0	6541.1	6625.0	7354.3	7822.4	7658.3	6874.9
47.5°	9676.4	9652.1	9510.4	8725.2	7964.2	7872.8	8008.9	8527.5	9154.1	9180.3	8247.7
50°	10892.5	11021.2	10810.4	10502.6	9937.5	9745.4	9695.0	9948.7	10903.7	10778.7	9896.5
52.5°	12640.1	12707.3	12311.8	12233.5	12362.2	11739.2	11688.9	11750.4	12604.7	12175.7	11131.2
55°	13738.7	13699.5	13552.2	14163.9	14673.1	13895.4	13831.9	13583.9	14016.6	13162.3	12319.3
57.5°	14085.6	14141.6	14484.7	15590.8	16795.7	16135.4	16019.8	15314.7	15035.0	14081.9	13412.3
60°	13930.8	14033.4	14773.8	16418.9	18090.1	17991.2	17892.4	16708.0	15766.1	14850.3	14178.9
62.5°	12828.5	12972.1	14156.5	16271.5	18528.4	19145.7	19022.6	17577.2	16252.9	15223.3	14313.1
65°	10750.7	10857.0	12558.0	14934.2	17905.4	19541.2	19496.4	17849.5	16329.4	14882.0	13393.6
67.5°	7663.9	8025.7	9601.8	12586.0	16062.7	18866.0	18942.4	17523.1	15611.3	13406.7	11092.0
70°	4817.7	5063.9	6194.2	9010.5	12877.0	16551.3	16803.1	16029.1	13548.4	10450.4	7425.2
72.5°	2297.9	2480.6	3286.4	5703.6	9088.9	13022.5	13222.0	13158.6	10476.5	6584.0	3831.0
75°	1024.0	1093.0	1568.6	2911.5	5867.8	8753.1	9269.8	9355.6	6546.7	3221.1	1490.3
77.5°	522.2	524.1	734.9	1410.1	2930.1	5222.4	5325.0	5625.3	3549.4	1419.4	518.5
80°	277.9	296.6	389.8	665.9	1520.1	2572.0	2559.0	2812.6	1574.2	695.7	173.5
82.5°	125.0	138.0	220.1	348.8	742.3	975.5	1051.9	1150.8	675.2	443.9	76.5
85°	37.3	44.8	108.2	175.3	268.6	281.6	315.2	406.6	382.4	315.2	39.2
87.5°	5.6	5.6	44.8	48.5	39.2	50.4	52.2	57.8	123.1	115.6	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455147

CATALOG NUMBER: GALN-SA6B-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7	2271.7
2.5°	2275.5	2262.4	2215.8	2176.6	2143.1	2122.5	2098.3	2083.4	2075.9	2070.3	2072.2
5°	2284.8	2253.1	2172.9	2109.5	2061.0	2008.8	1973.3	1952.8	1943.5	1928.6	1928.6
7.5°	2337.0	2286.7	2174.8	2077.8	1993.8	1923.0	1855.8	1831.6	1814.8	1811.1	1807.3
10°	2411.6	2348.2	2195.3	2061.0	1941.6	1844.6	1749.5	1665.6	1600.3	1561.1	1555.5
12.5°	2504.9	2413.5	2227.0	2049.8	1896.9	1725.3	1473.5	1303.7	1190.0	1154.5	1160.1
15°	2590.7	2491.8	2258.7	2040.5	1814.8	1430.6	1145.2	951.2	893.4	887.8	889.7
17.5°	2693.3	2575.8	2296.0	2027.4	1589.1	1093.0	850.5	798.3	809.5	828.1	826.3
20°	2799.6	2665.3	2340.8	1949.1	1268.3	822.5	751.7	757.2	774.0	790.8	794.6
22.5°	2913.4	2767.9	2393.0	1760.7	968.0	716.2	712.5	719.9	736.7	755.4	759.1
25°	3070.0	2896.6	2432.2	1514.5	733.0	662.1	669.6	682.6	697.6	718.1	721.8
27.5°	3271.5	3070.0	2452.7	1193.7	634.2	613.6	615.5	634.2	652.8	671.5	671.5
30°	3532.6	3277.1	2411.6	902.7	585.7	567.0	559.5	570.7	595.0	613.6	615.5
32.5°	3765.7	3472.9	2303.5	690.1	550.2	524.1	505.5	507.3	516.6	527.8	529.7
35°	3998.9	3663.2	2118.8	580.1	512.9	483.1	455.1	440.2	432.7	427.1	432.7
37.5°	4297.3	3900.0	1872.6	527.8	481.2	443.9	404.7	373.0	346.9	330.1	333.9
40°	4681.5	4228.3	1581.6	494.3	451.4	406.6	354.4	313.3	268.6	253.7	246.2
42.5°	5315.7	4726.3	1275.8	466.3	421.5	367.4	302.2	246.2	205.2	190.2	194.0
45°	6317.3	5354.8	982.9	436.4	391.7	324.5	253.7	194.0	160.4	152.9	156.7
47.5°	7645.2	6168.0	757.2	402.9	354.4	277.9	199.6	152.9	132.4	130.6	128.7
50°	8894.9	6925.3	632.3	365.6	309.6	231.3	164.1	128.7	115.6	113.8	113.8
52.5°	10025.2	7468.1	514.8	322.7	261.1	190.2	138.0	113.8	102.6	97.0	97.0
55°	11030.5	7822.4	417.8	270.4	205.2	151.1	119.4	102.6	89.5	82.1	80.2
57.5°	11789.6	7865.3	313.3	216.4	152.9	117.5	102.6	89.5	74.6	65.3	61.5
60°	12114.1	7494.2	231.3	164.1	113.8	93.3	82.1	72.7	56.0	46.6	44.8
62.5°	11787.7	6772.4	171.6	125.0	87.7	69.0	57.8	54.1	39.2	28.0	26.1
65°	10618.3	5729.7	136.2	95.1	65.3	50.4	37.3	35.4	24.2	13.1	11.2
67.5°	8506.9	4487.5	108.2	70.9	46.6	33.6	24.2	22.4	13.1	3.7	3.7
70°	5532.0	2868.6	87.7	52.2	29.8	22.4	14.9	11.2	7.5	1.9	0.0
72.5°	2736.2	1341.0	70.9	41.0	20.5	11.2	5.6	3.7	5.6	0.0	0.0
75°	1061.3	477.5	52.2	28.0	11.2	5.6	3.7	0.0	1.9	0.0	0.0
77.5°	352.5	158.5	31.7	14.9	7.5	3.7	0.0	0.0	0.0	0.0	0.0
80°	130.6	61.5	16.8	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	52.2	24.2	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	14.9	7.5	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	11.2	7.5	5.6	3.7	1.9	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)