

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: P652502

Luminaire Tested: **GALN-SA7B-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27417.5 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

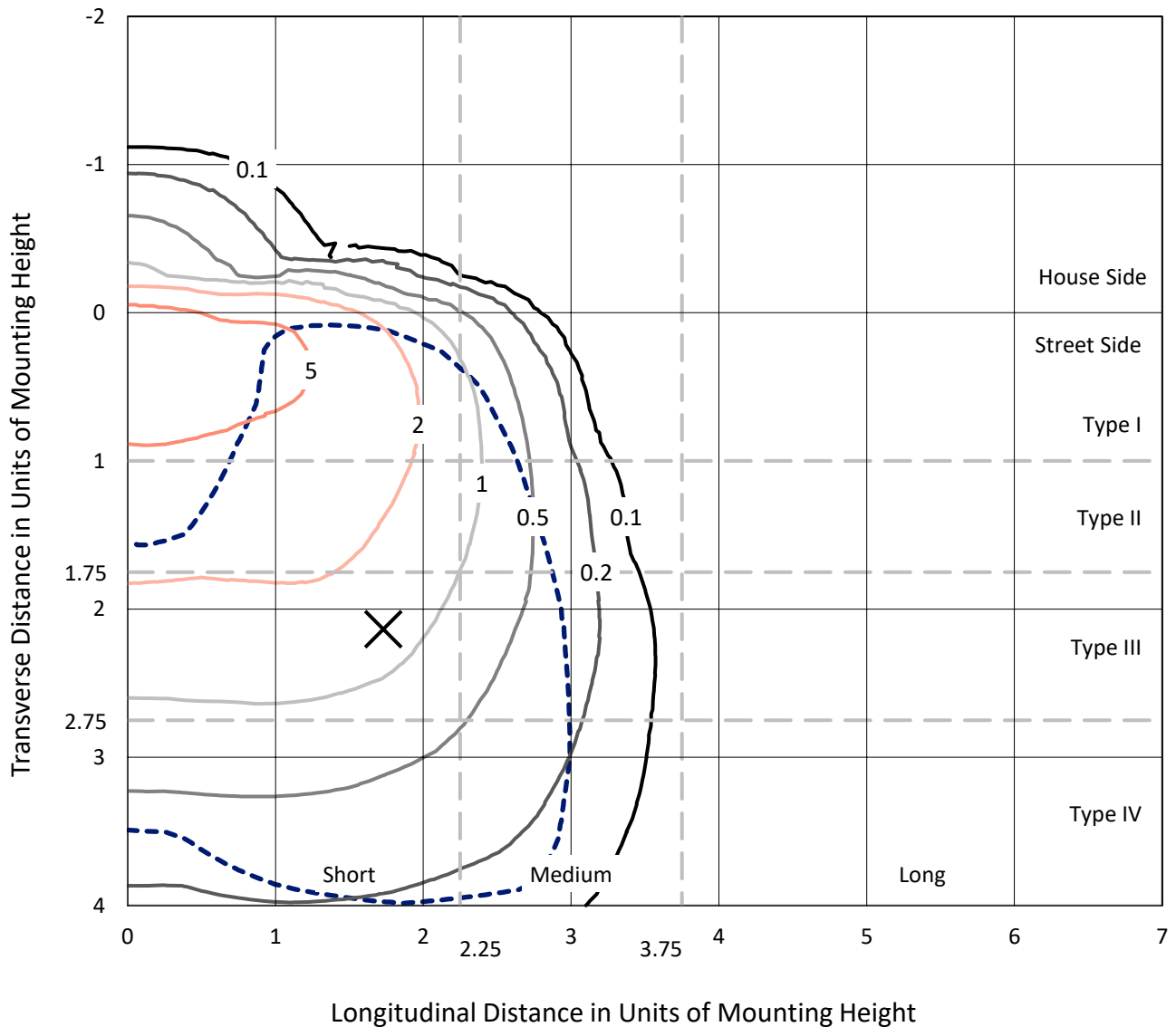
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

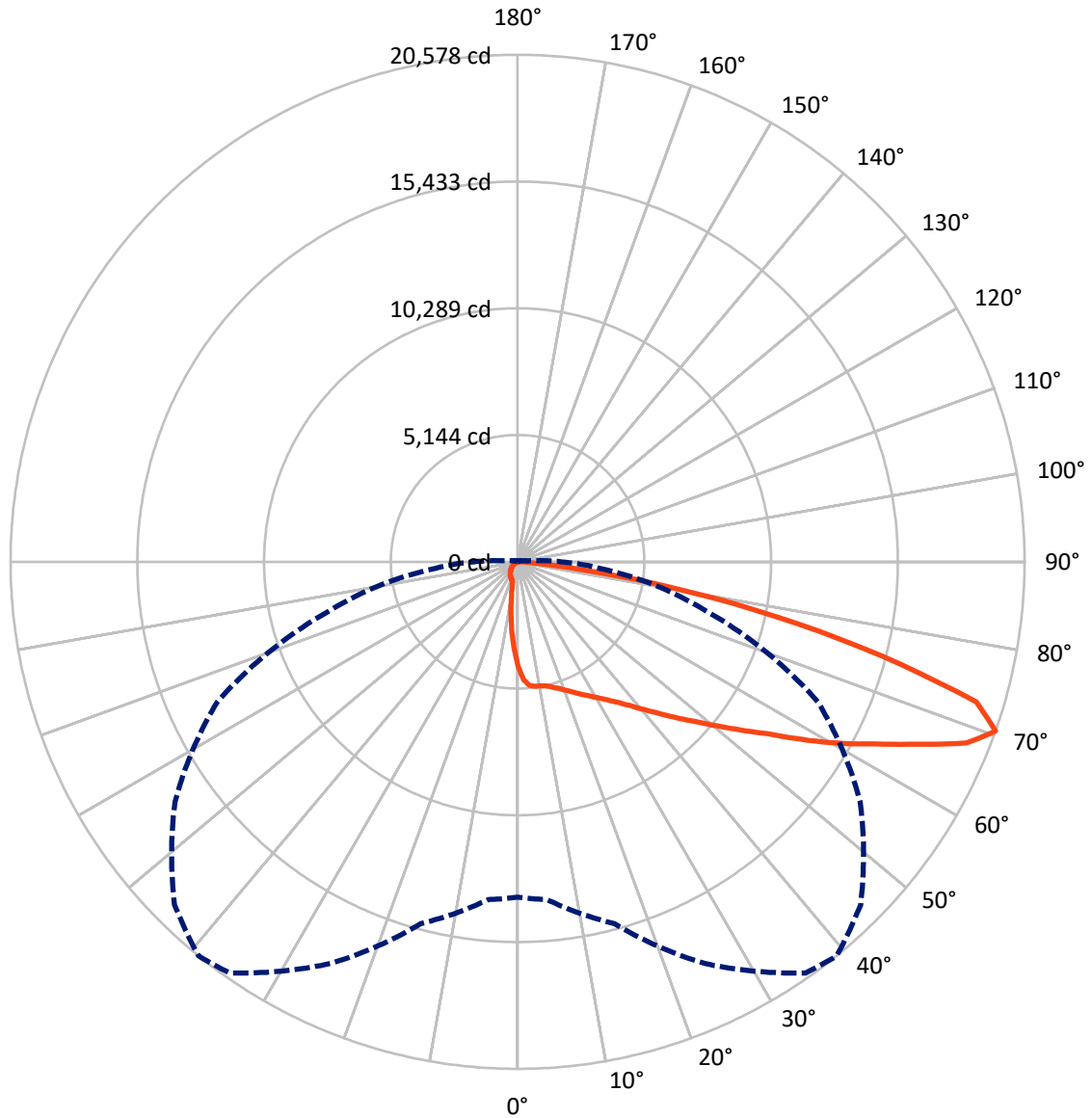
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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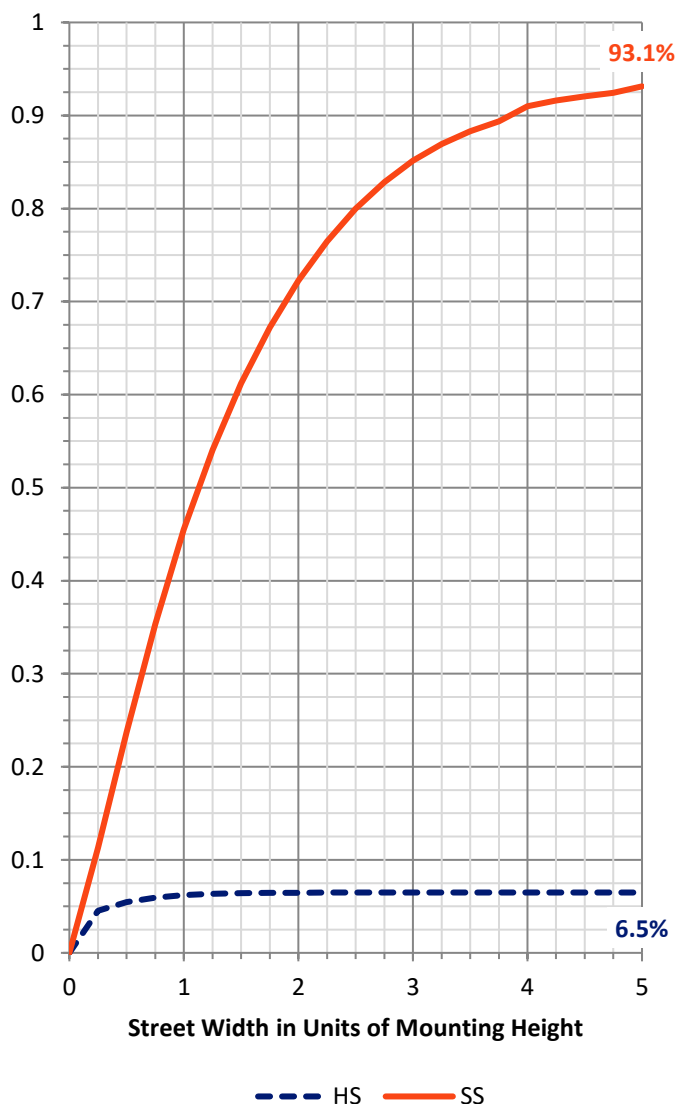
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1787.8	0.0	1787.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25629.7	0.0	25629.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	27417.5	0.0	27417.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.3
10°-20°	948.2	3.5
20°-30°	1588.6	5.8
30°-40°	2463.7	9.0
40°-50°	3904.2	14.2
50°-60°	5722.9	20.9
60°-70°	7335.4	26.8
70°-80°	4609.3	16.8
80°-90°	480.2	1.8
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°	27417.5	100.0
0°-180°	27417.5	100.0

Coefficient of Utilization



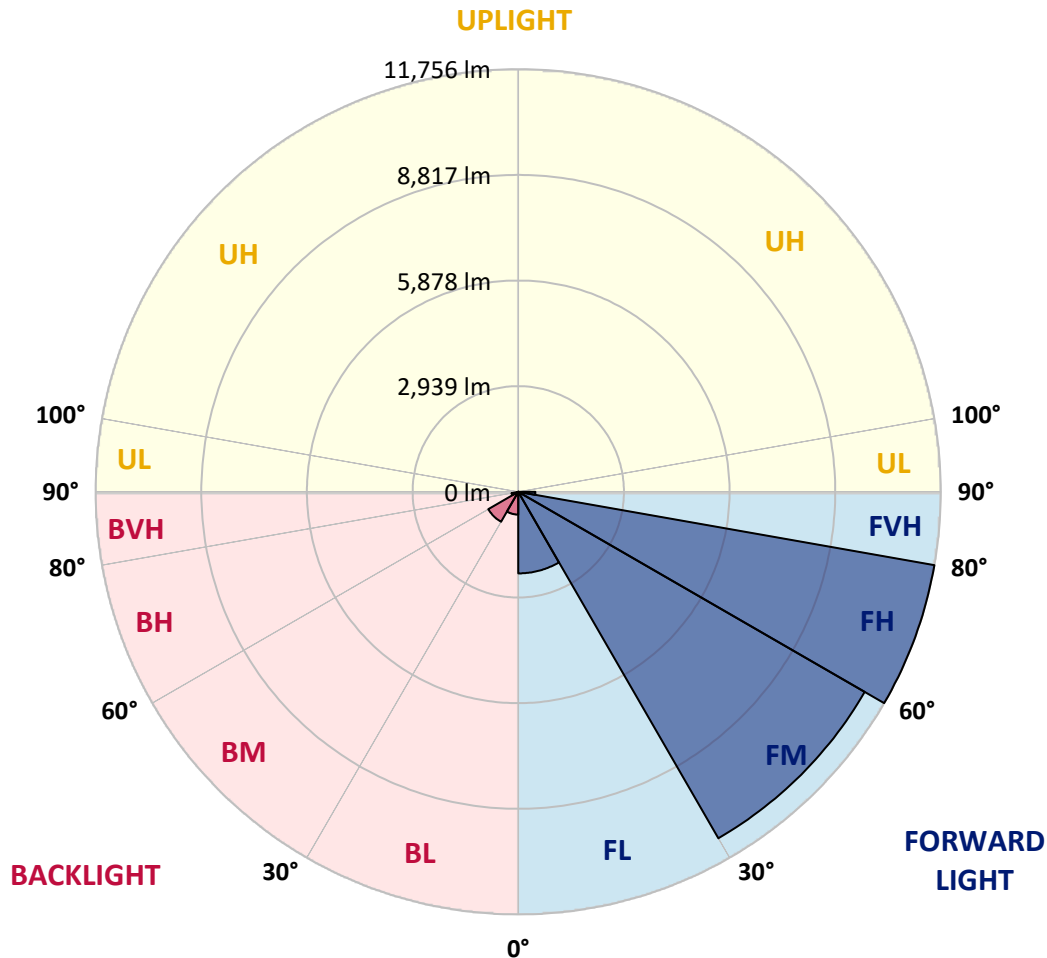
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2268.7	8.3			
FM (30°-60°)	11128.7	40.6			
FH (60°-80°)	11755.7	42.9			G4/12000
FVH (80°-90°)	476.7	1.7			G3/500
BL (0°-30°)	633.0	2.3	B2/1000		
BM (30°-60°)	962.1	3.5	B1/1000		
BH (60°-80°)	189.1	0.7	B1/500		G1/500
BVH (80°-90°)	3.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1
2.5°	4943.1	4926.6	4904.5	4878.7	4805.0	4792.1	4747.9	4653.9	4541.5	4449.4	4322.3
5°	5177.2	5186.4	5169.8	5123.7	5070.3	5038.9	4983.7	4838.2	4692.6	4506.5	4298.4
7.5°	5230.6	5249.0	5228.7	5184.5	5133.0	5099.7	5055.6	4930.3	4760.7	4548.9	4263.3
10°	5225.0	5247.2	5234.3	5193.8	5151.4	5120.0	5072.2	4972.7	4836.3	4613.4	4274.4
12.5°	5215.9	5245.3	5243.5	5223.2	5188.2	5164.2	5134.8	5046.3	4919.2	4707.3	4335.2
15°	5190.1	5226.9	5260.0	5276.6	5278.5	5278.5	5241.6	5147.7	5026.1	4830.8	4414.4
17.5°	5201.1	5243.5	5326.4	5374.3	5407.5	5403.8	5365.1	5263.7	5129.3	4957.9	4497.3
20°	5269.3	5326.4	5442.4	5538.2	5571.5	5560.4	5508.8	5390.9	5237.9	5066.6	4578.4
22.5°	5436.9	5488.5	5634.1	5746.5	5770.4	5740.9	5667.2	5507.0	5368.8	5184.5	4676.0
25°	5687.5	5748.3	5882.8	5967.6	5967.6	5951.0	5847.8	5659.8	5516.1	5348.5	4803.1
27.5°	5991.5	6043.1	6175.7	6251.2	6207.1	6159.1	6056.0	5829.4	5691.2	5554.8	4956.1
30°	6299.2	6332.3	6472.3	6505.6	6459.5	6398.7	6288.2	6061.5	5939.9	5834.9	5177.2
32.5°	6590.2	6662.1	6778.2	6770.8	6708.2	6678.7	6577.4	6336.0	6267.9	6256.8	5486.7
35°	6881.4	6936.7	7039.8	7065.6	7010.3	7004.9	6931.1	6752.4	6754.2	6826.1	5969.4
37.5°	7131.9	7181.7	7303.3	7360.4	7371.4	7399.1	7369.6	7251.7	7419.4	7616.5	6608.7
40°	7342.0	7412.0	7566.7	7666.2	7780.5	7881.8	7887.3	7913.1	8250.3	8589.3	7443.3
42.5°	7505.9	7603.6	7828.4	8012.6	8274.3	8403.2	8506.4	8648.3	9215.7	9722.4	8427.2
45°	7719.7	7832.1	8112.1	8401.3	8810.4	9022.2	9166.0	9545.5	10350.6	11041.5	9436.8
47.5°	8073.4	8132.4	8417.9	8839.8	9377.8	9680.0	9960.0	10534.9	11568.5	12187.5	10276.9
50°	8528.5	8567.2	8782.7	9368.7	10065.1	10463.0	10973.4	11649.5	12832.3	13138.2	10752.3
52.5°	9031.5	9044.4	9206.5	9950.8	10835.2	11336.3	11907.5	12742.1	13862.2	13816.2	11067.3
55°	9615.5	9597.1	9735.2	10582.8	11747.2	12320.1	12985.3	13860.4	14755.8	14297.1	11247.9
57.5°	10284.3	10234.5	10369.0	11421.0	12915.2	13600.7	14276.8	14825.8	15448.6	14700.5	11334.5
60°	10984.4	10884.9	11045.2	12362.5	14291.5	14941.9	15503.8	15651.2	16178.1	15021.1	11185.2
62.5°	11542.6	11544.5	11843.0	13364.8	15706.5	16275.8	16574.3	16706.9	16806.4	14951.1	10400.4
65°	12414.1	12443.6	12920.8	14755.8	17344.4	17838.1	18042.6	17611.5	16834.0	14081.5	9221.2
67.5°	13313.2	13407.1	14280.4	16671.9	19236.5	19634.5	19371.0	17786.6	16082.4	12097.2	6991.9
70°	13606.1	13760.9	15199.8	17991.1	20371.5	20577.8	19686.0	16970.4	13444.1	8088.1	3519.0
72.5°	12467.6	12718.1	14671.1	17510.2	19647.4	19468.6	17613.4	14232.6	8546.9	3071.2	1074.1
75°	8792.0	8902.5	12193.0	14525.5	15802.3	15295.6	13398.0	9175.1	3515.3	862.3	368.4
77.5°	4539.7	4486.2	7251.7	9637.6	11270.0	10744.9	8773.6	4749.7	1332.1	359.3	228.5
80°	2347.2	2385.9	3137.6	5050.0	6879.5	6330.5	4677.9	2201.7	709.3	199.0	175.0
82.5°	1315.5	1234.4	1803.7	2205.4	3216.8	2522.2	1794.5	1558.7	309.5	119.8	165.8
85°	239.5	250.5	989.4	1192.0	1116.5	709.3	578.5	1041.0	90.2	66.4	116.1
87.5°	3.7	3.7	191.6	342.7	217.4	99.5	182.4	149.2	18.4	25.8	20.3
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°	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1	4278.1
2.5°	4257.8	4187.8	4057.0	3928.0	3764.1	3629.5	3539.3	3445.3	3349.5	3356.9	3379.0
5°	4184.1	4062.5	3804.6	3531.9	3270.2	3034.4	2802.3	2594.1	2509.4	2432.0	2435.6
7.5°	4110.4	3939.1	3561.4	3133.9	2737.8	2336.1	2045.1	1805.5	1678.5	1582.6	1555.0
10°	4077.3	3850.6	3338.4	2750.7	2188.8	1750.3	1376.3	1181.0	1029.9	982.0	994.9
12.5°	4092.0	3806.4	3137.6	2404.3	1735.6	1219.7	958.1	858.6	825.4	819.9	816.2
15°	4119.6	3775.1	2940.5	2021.1	1275.0	906.4	805.1	786.7	783.1	779.4	781.2
17.5°	4156.5	3747.4	2730.5	1661.8	978.3	792.2	762.8	753.5	751.7	751.7	751.7
20°	4193.3	3716.1	2496.4	1341.3	816.2	748.0	729.6	724.1	722.3	722.3	720.4
22.5°	4235.7	3688.5	2258.8	1053.9	751.7	716.7	700.1	696.4	694.6	692.7	692.7
25°	4296.5	3653.5	2006.4	862.3	711.1	687.2	670.6	666.9	665.1	657.7	659.6
27.5°	4377.6	3627.7	1746.6	744.4	674.3	650.3	639.3	633.8	630.1	624.6	626.4
30°	4488.1	3605.6	1470.2	679.9	631.9	611.7	600.6	596.9	593.2	587.7	587.7
32.5°	4679.7	3614.8	1179.2	628.2	593.2	569.3	558.3	554.6	550.9	545.4	545.4
35°	4967.1	3668.2	943.3	584.1	547.2	523.3	512.2	512.2	506.7	499.3	497.5
37.5°	5436.9	3804.6	757.2	541.7	503.0	480.9	467.9	464.3	458.8	447.7	445.9
40°	5991.5	4016.4	637.5	499.3	462.5	440.3	429.2	418.2	403.5	392.4	390.6
42.5°	6687.9	4233.8	552.7	456.9	423.8	403.5	390.6	372.1	350.0	335.3	333.5
45°	7413.8	4432.8	495.6	418.2	386.9	370.3	355.6	326.1	298.5	280.1	278.2
47.5°	7955.5	4469.7	449.5	381.4	355.6	339.0	318.7	281.9	245.1	228.5	222.9
50°	8211.6	4291.0	401.7	344.6	324.3	305.9	280.1	237.7	197.1	176.9	173.2
52.5°	8301.8	3981.5	363.0	311.3	292.9	270.8	239.5	191.6	154.7	134.5	132.6
55°	8265.0	3590.8	327.9	280.1	256.1	230.3	199.0	152.9	114.2	97.6	93.9
57.5°	8071.6	3093.4	292.9	248.7	219.2	193.4	158.4	114.2	77.4	62.7	60.8
60°	7550.2	2415.4	257.9	213.7	186.1	158.4	125.3	81.1	47.9	35.0	35.0
62.5°	6669.5	1792.7	224.8	178.7	156.6	127.2	88.5	51.6	25.8	18.4	16.6
65°	5573.3	1322.8	188.0	151.0	130.8	99.5	62.7	31.3	12.9	5.6	3.7
67.5°	3889.3	816.2	156.6	123.5	106.9	71.8	38.7	12.9	5.6	0.0	0.0
70°	1766.9	388.7	119.8	93.9	81.1	51.6	20.3	7.4	3.7	0.0	0.0
72.5°	549.0	204.5	84.8	68.2	55.3	33.1	11.0	5.6	3.7	0.0	0.0
75°	254.2	130.8	53.4	36.8	31.3	16.6	7.4	3.7	1.9	0.0	0.0
77.5°	189.7	101.3	31.3	20.3	16.6	11.0	5.6	3.7	1.9	0.0	0.0
80°	165.8	51.6	18.4	12.9	9.3	7.4	3.7	1.9	0.0	0.0	0.0
82.5°	149.2	25.8	11.0	7.4	5.6	3.7	1.9	1.9	0.0	0.0	0.0
85°	81.1	14.7	7.4	5.6	3.7	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	14.7	7.4	5.6	3.7	3.7	1.9	1.9	1.9	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)