

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: P652056

Luminaire Tested: **GALN-SA8A-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25417.5 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

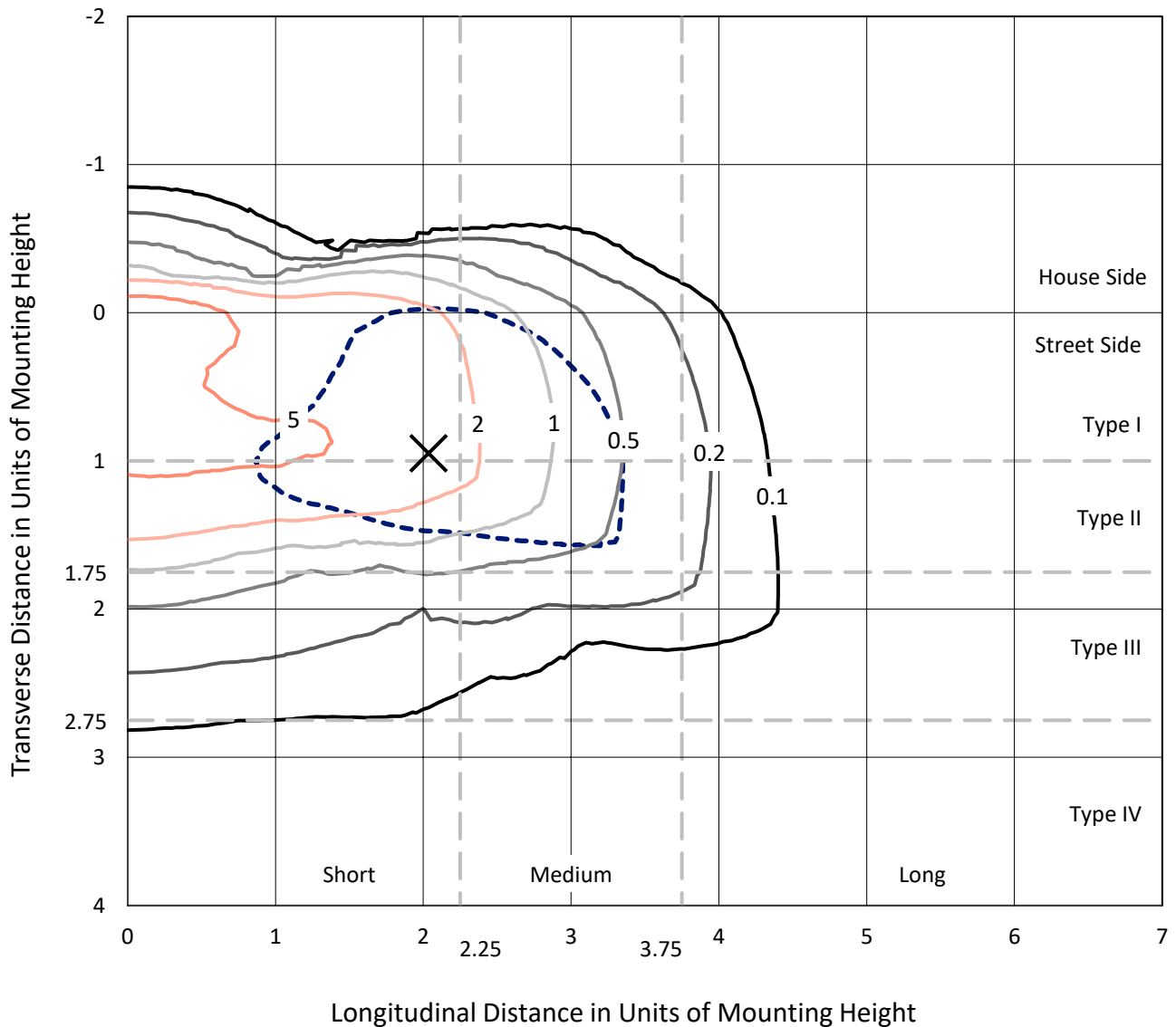
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652056
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Iso-Footcandle Lines of Horizontal Illumination

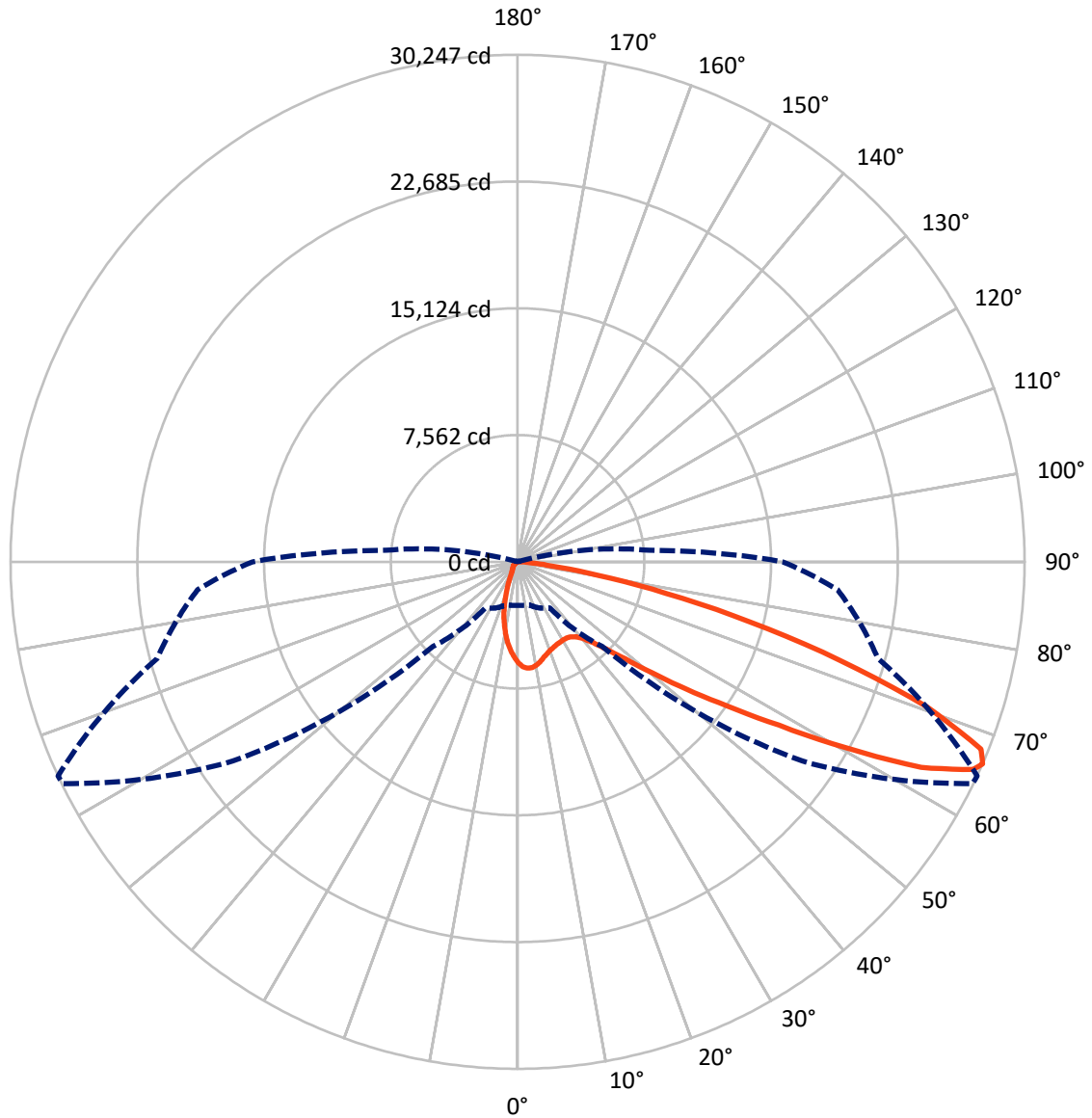
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

REPORT NUMBER: P652056
CATALOG NUMBER: GALN-SA8A-840-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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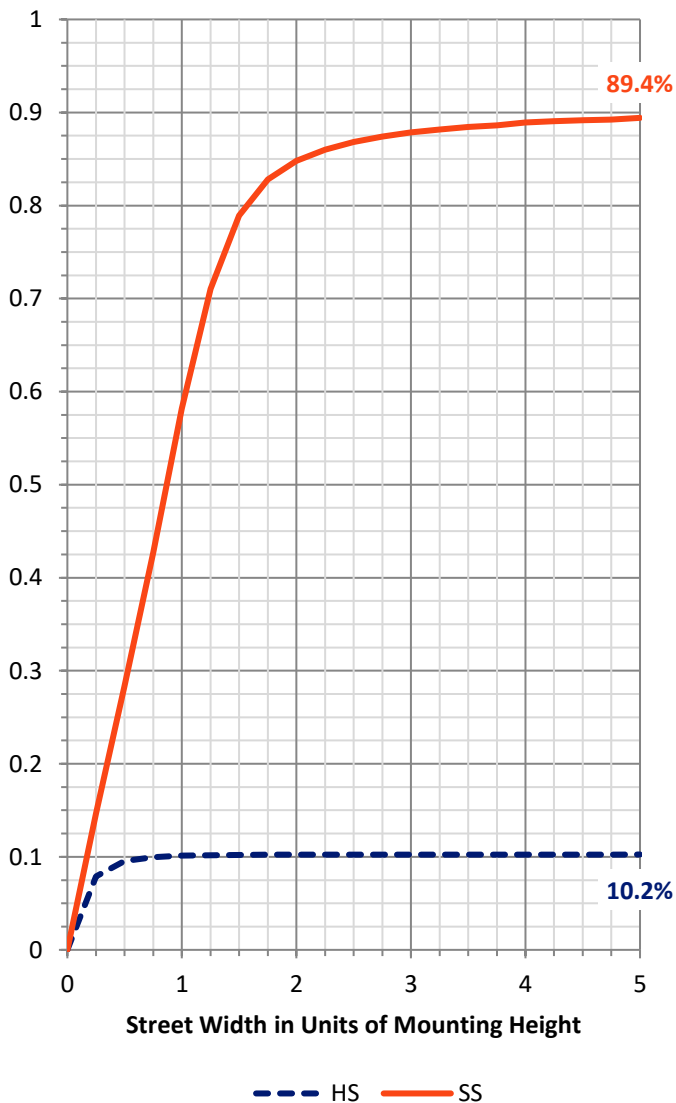
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2628.5	0.0	2628.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22789.0	0.0	22789.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	25417.5	0.0	25417.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	1.9
10°-20°	1074.1	4.2
20°-30°	1538.6	6.1
30°-40°	2247.3	8.8
40°-50°	3768.3	14.8
50°-60°	6288.7	24.7
60°-70°	6675.2	26.3
70°-80°	3023.2	11.9
80°-90°	309.3	1.2
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°	25417.5	100.0
0°-180°	25417.5	100.0

Coefficient of Utilization

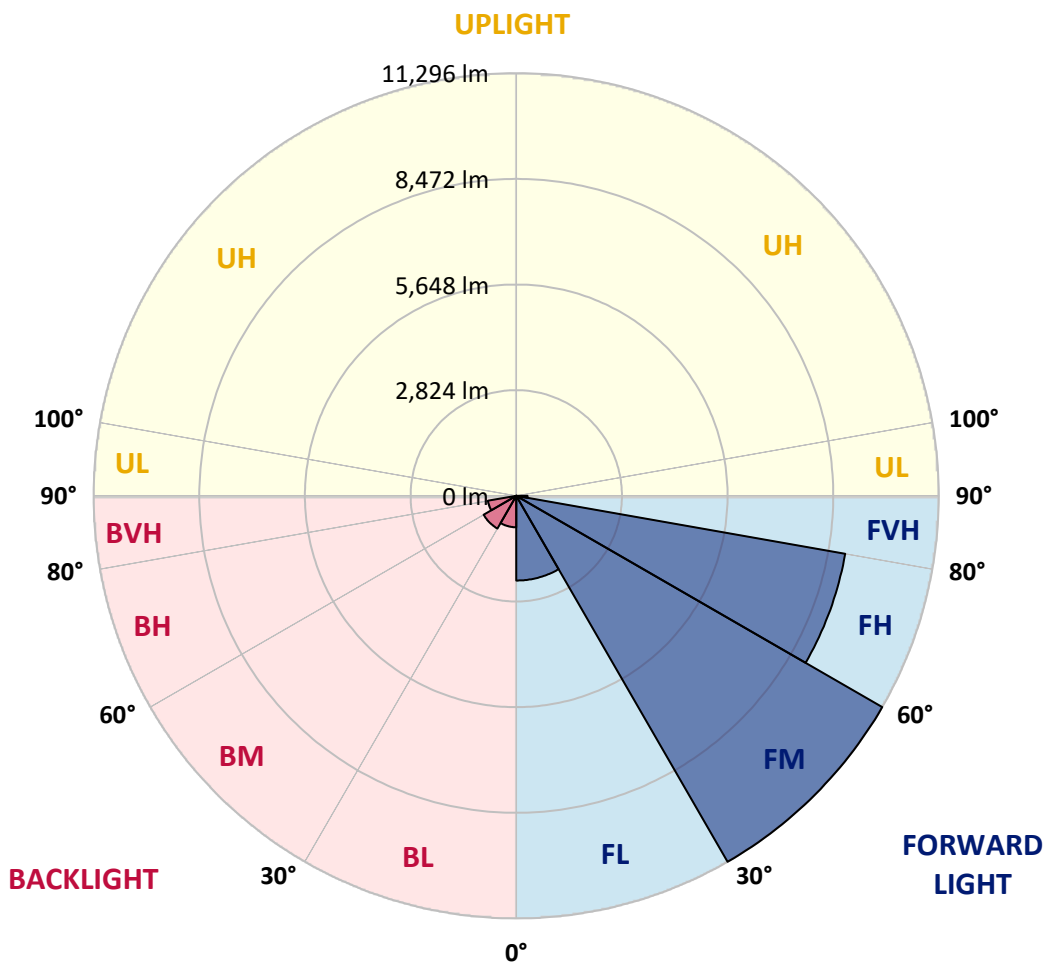


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.8	8.9			
FM (30°-60°)	11296.1	44.4			
FH (60°-80°)	8928.6	35.1			G4/12000
FVH (80°-90°)	299.5	1.2			G3/500
BL (0°-30°)	840.8	3.3	B2/1000		
BM (30°-60°)	1008.1	4.0	B2/2500		
BH (60°-80°)	769.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.8	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 II Short





REPORT NUMBER: P652056

CATALOG NUMBER: GALN-SA8A-840-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4
2.5°	6351.9	6358.8	6367.4	6379.4	6388.0	6362.2	6326.2	6285.0	6276.4	6188.8	6082.4
5°	6012.0	6022.3	6097.8	6139.0	6231.7	6315.8	6369.1	6376.0	6372.5	6290.1	6120.1
7.5°	5527.9	5557.1	5630.8	5703.0	5876.4	6036.0	6224.8	6357.0	6365.6	6343.3	6132.2
10°	5134.7	5153.6	5191.4	5333.9	5478.1	5721.8	5986.2	6235.2	6255.8	6345.0	6121.9
12.5°	4827.4	4854.9	4901.3	5011.1	5184.5	5414.5	5715.0	6049.7	6092.7	6312.4	6092.7
15°	4612.9	4626.6	4672.9	4781.1	4949.4	5162.2	5466.1	5855.8	5893.6	6269.5	6087.5
17.5°	4511.5	4527.0	4559.6	4645.4	4784.5	4981.9	5279.0	5699.5	5747.6	6242.0	6106.4
20°	4539.0	4552.8	4554.5	4599.1	4693.5	4860.1	5141.6	5553.6	5615.4	6224.8	6137.3
22.5°	4695.2	4697.0	4676.4	4655.8	4688.4	4808.6	5057.5	5460.9	5524.4	6221.5	6173.4
25°	4928.8	4933.9	4899.6	4827.4	4762.2	4824.0	5038.6	5400.8	5457.5	6212.8	6195.6
27.5°	5251.5	5249.8	5239.4	5119.3	4933.9	4892.7	5054.1	5368.2	5416.3	6188.8	6204.2
30°	5703.0	5689.3	5666.9	5531.3	5248.0	5059.2	5119.3	5347.6	5392.2	6154.4	6181.9
32.5°	6147.6	6199.1	6195.6	6066.9	5713.2	5356.2	5254.9	5375.1	5407.7	6132.2	6149.3
35°	6666.0	6664.3	6796.5	6748.4	6334.7	5735.6	5486.7	5466.1	5491.8	6147.6	6133.8
37.5°	7146.7	7191.4	7397.4	7447.1	7069.5	6271.3	5814.6	5661.8	5670.4	6252.3	6171.7
40°	7745.9	7831.7	8139.0	8305.5	7972.5	7066.1	6298.7	6020.6	6022.3	6509.8	6314.1
42.5°	8518.4	8654.1	8940.8	9218.9	9040.3	8006.8	7024.9	6588.8	6585.4	6963.1	6640.3
45°	9457.5	9551.9	9878.0	10319.2	10206.0	9320.1	8082.3	7469.5	7424.9	7706.4	7218.8
47.5°	10267.8	10396.5	10727.9	11230.9	11745.8	10923.6	9345.9	8679.8	8650.6	8889.2	8211.1
50°	10621.4	10734.7	11083.2	11788.8	13036.8	13028.3	11227.4	10446.3	10396.5	10525.3	9745.8
52.5°	10233.5	10339.8	10691.8	11570.7	13644.6	15593.1	13953.5	12662.6	12602.5	12437.7	11579.3
55°	8904.7	8992.2	9512.4	10521.8	13411.1	17302.9	17709.8	15400.8	15167.3	14526.9	13654.9
57.5°	7090.1	7045.5	7368.2	8540.7	12041.1	17876.3	21565.6	18811.9	18394.8	16333.0	15411.1
60°	4913.3	5050.6	5181.1	5953.6	9054.0	16882.3	23963.8	23100.3	22551.0	18109.8	17093.5
62.5°	3612.0	3703.0	3788.8	4145.9	5692.6	13479.8	24387.8	27505.4	27017.9	19996.5	18698.6
65°	2856.6	2863.5	2897.8	3249.8	3751.0	8765.7	22350.1	29989.6	29864.2	21812.8	19349.2
66°	2602.6	2604.2	2657.5	3035.2	3366.5	7138.2	20717.5	30178.4	30247.1	22248.8	19158.7
67.5°	2274.7	2267.8	2345.0	2727.9	3066.1	5146.8	17795.6	29412.7	29819.6	22583.5	18473.7
70°	1763.1	1754.5	1848.9	2288.4	2824.0	3433.5	11828.2	25254.8	25910.6	21898.6	16345.0
72.5°	1174.2	1181.1	1342.5	1806.0	2695.2	3023.1	7115.9	19211.9	20138.9	18084.0	12858.3
75°	685.0	697.0	880.7	1342.5	2339.9	2882.4	4027.5	13699.5	14291.8	12487.5	8010.3
77.5°	358.8	364.0	492.7	885.8	1794.0	2676.4	2683.2	8751.9	9030.0	6068.7	3170.8
80°	190.6	185.4	264.4	533.9	1234.3	2350.2	2176.8	4633.5	4817.2	1802.6	801.7
82.5°	72.1	79.0	140.8	350.2	729.7	1687.6	1874.7	2048.1	1984.5	396.5	336.5
85°	13.7	17.2	60.0	207.7	367.3	705.6	1381.9	1004.3	930.5	149.4	194.0
87.5°	1.7	3.4	17.2	49.8	53.2	238.6	408.6	278.1	240.4	54.9	80.7
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°	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4	6027.4
2.5°	6030.9	5984.6	5830.0	5677.3	5521.0	5380.2	5284.1	5127.8	5088.4	5031.7	4999.2
5°	6018.9	5910.7	5613.7	5289.2	4987.1	4660.9	4412.0	4171.6	4042.9	3977.7	3953.6
7.5°	5984.6	5812.8	5349.3	4841.2	4357.1	3869.5	3445.5	3122.7	2915.0	2772.5	2676.4
10°	5915.8	5678.9	5042.0	4343.3	3612.0	2968.2	2430.9	2022.3	1706.4	1606.9	1610.3
12.5°	5845.5	5529.6	4698.7	3790.6	2884.1	2072.1	1502.1	1179.4	1028.3	978.5	968.2
15°	5780.2	5387.1	4362.2	3254.9	2147.7	1342.5	968.2	855.0	813.8	805.2	803.4
17.5°	5745.9	5254.9	4003.4	2642.1	1498.7	911.6	776.0	745.0	733.0	724.4	721.0
20°	5716.7	5139.9	3660.0	2068.7	1024.9	746.8	695.3	666.1	645.5	636.9	631.8
22.5°	5696.1	5021.4	3304.7	1601.7	784.6	662.6	616.3	578.5	549.3	539.1	532.2
25°	5665.2	4891.0	2945.9	1170.8	660.9	588.9	535.6	491.0	453.2	434.3	430.9
27.5°	5620.6	4743.3	2552.8	867.0	590.6	523.6	458.3	403.4	365.7	345.1	346.7
30°	5548.5	4588.8	2159.6	688.4	533.9	456.7	386.3	333.0	297.0	281.6	279.8
32.5°	5462.6	4401.7	1799.2	590.6	482.4	396.5	322.8	276.4	248.9	236.9	235.2
35°	5382.0	4212.8	1431.7	530.5	429.2	341.6	271.2	231.8	211.2	200.8	202.6
37.5°	5337.3	4044.6	1115.8	482.4	386.3	293.6	233.5	199.1	180.2	171.6	170.0
40°	5366.5	3907.3	887.5	439.5	338.2	252.4	200.8	171.6	152.8	140.8	140.8
42.5°	5503.8	3847.2	715.9	398.3	293.6	218.0	175.1	147.7	127.1	115.0	116.7
45°	5922.7	3910.7	599.1	360.5	252.4	188.8	151.0	121.9	103.0	94.4	92.7
47.5°	6618.0	4149.3	518.5	321.0	216.3	161.4	127.1	101.3	82.4	75.5	73.8
50°	7833.4	4642.1	458.3	281.6	183.7	137.3	104.7	80.7	65.3	58.4	58.4
52.5°	9505.6	5716.7	415.5	236.9	154.5	116.7	85.9	65.3	51.5	46.3	44.7
55°	11253.2	6849.8	393.2	199.1	128.8	96.1	68.7	51.5	39.4	34.3	32.6
57.5°	12933.8	7739.1	367.3	161.4	103.0	73.8	53.2	39.4	27.5	24.1	22.3
60°	14545.9	8458.4	312.4	128.8	80.7	53.2	39.4	27.5	18.9	15.5	15.5
62.5°	15987.9	8877.2	245.5	103.0	61.8	37.8	25.7	20.6	13.7	10.3	10.3
65°	16156.1	8333.0	185.4	79.0	44.7	24.1	15.5	15.5	10.3	6.9	6.9
66°	15817.9	7871.2	163.1	72.1	39.4	20.6	13.7	12.0	8.6	5.1	5.1
67.5°	15062.6	7083.2	140.8	61.8	32.6	15.5	10.3	10.3	6.9	3.4	3.4
70°	13014.6	5785.4	111.6	46.3	24.1	12.0	6.9	6.9	5.1	3.4	3.4
72.5°	9919.3	4319.3	91.0	34.3	17.2	8.6	5.1	5.1	5.1	3.4	3.4
75°	5982.8	2326.2	70.4	25.7	15.5	6.9	3.4	5.1	6.9	5.1	3.4
77.5°	2204.3	791.4	54.9	20.6	12.0	6.9	3.4	3.4	6.9	5.1	5.1
80°	540.8	206.0	39.4	17.2	12.0	6.9	3.4	3.4	6.9	6.9	6.9
82.5°	250.6	87.5	27.5	15.5	12.0	6.9	3.4	3.4	5.1	6.9	6.9
85°	144.2	41.2	22.3	17.2	12.0	6.9	3.4	3.4	5.1	6.9	6.9
87.5°	58.4	20.6	20.6	17.2	13.7	8.6	3.4	3.4	3.4	5.1	5.1
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)