

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: P533027

Luminaire Tested: **GALN-SA8B-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533027
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-SA8B-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 21804 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 325
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

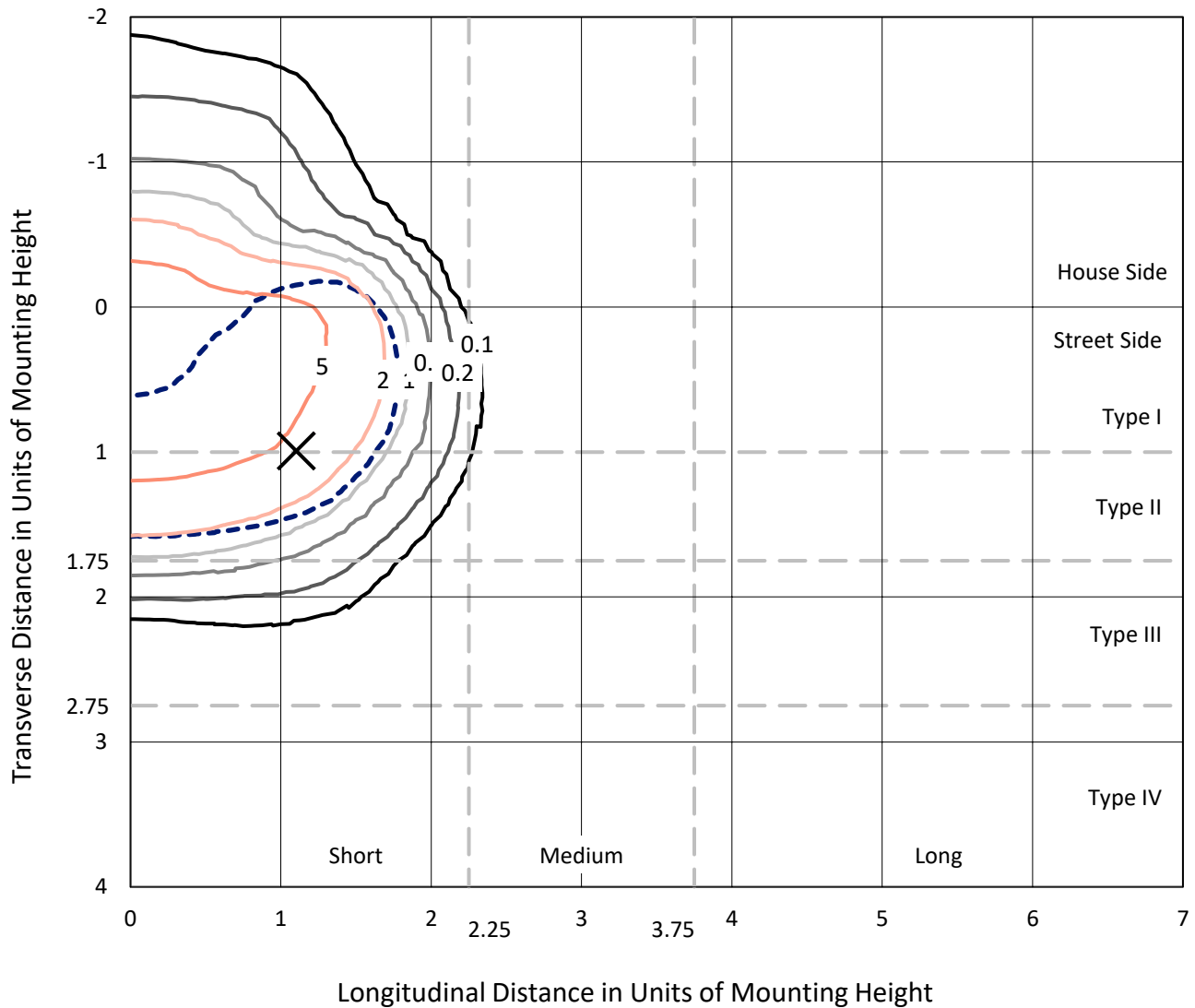


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Iso-Footcandle Lines of Horizontal Illumination

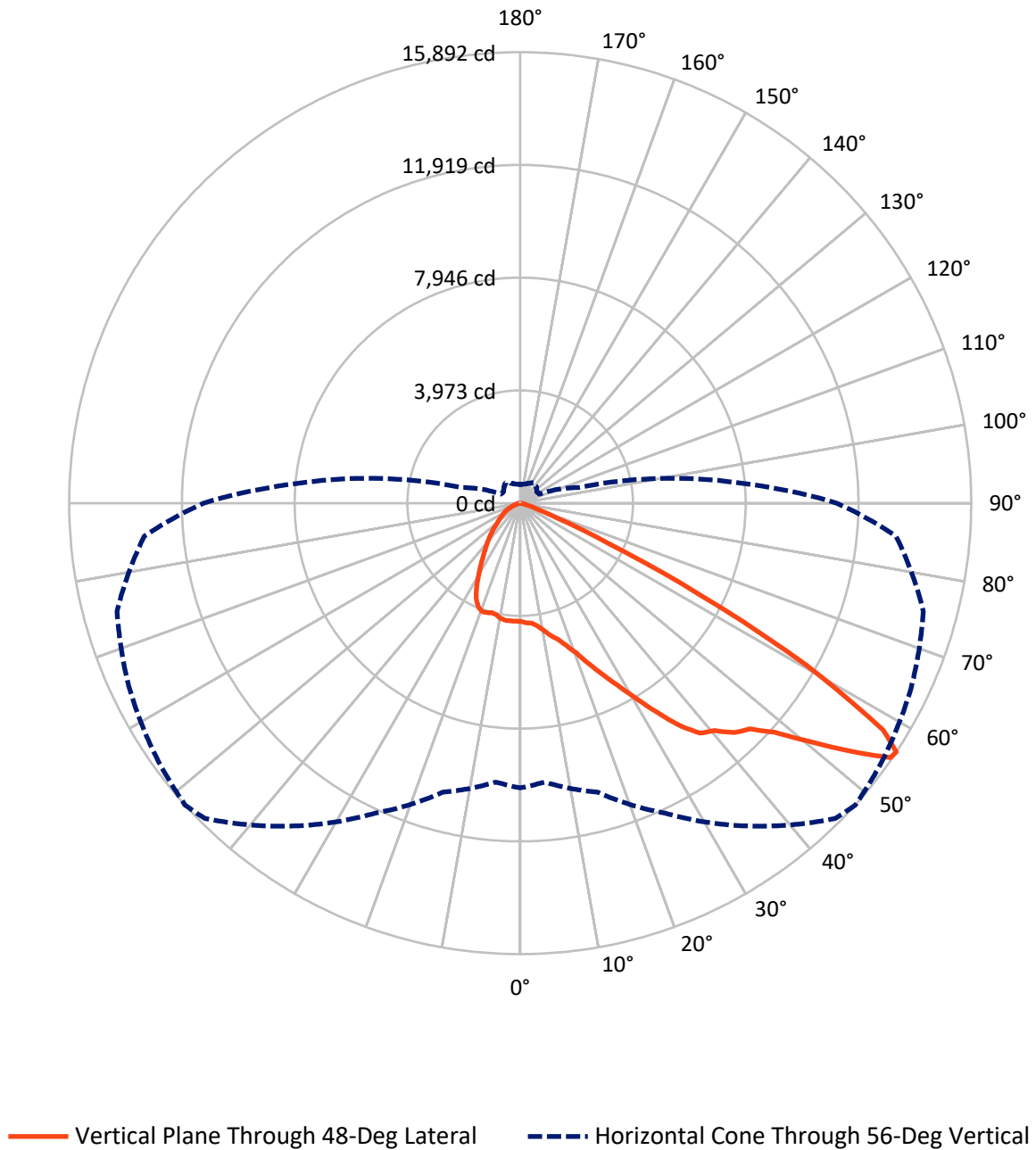
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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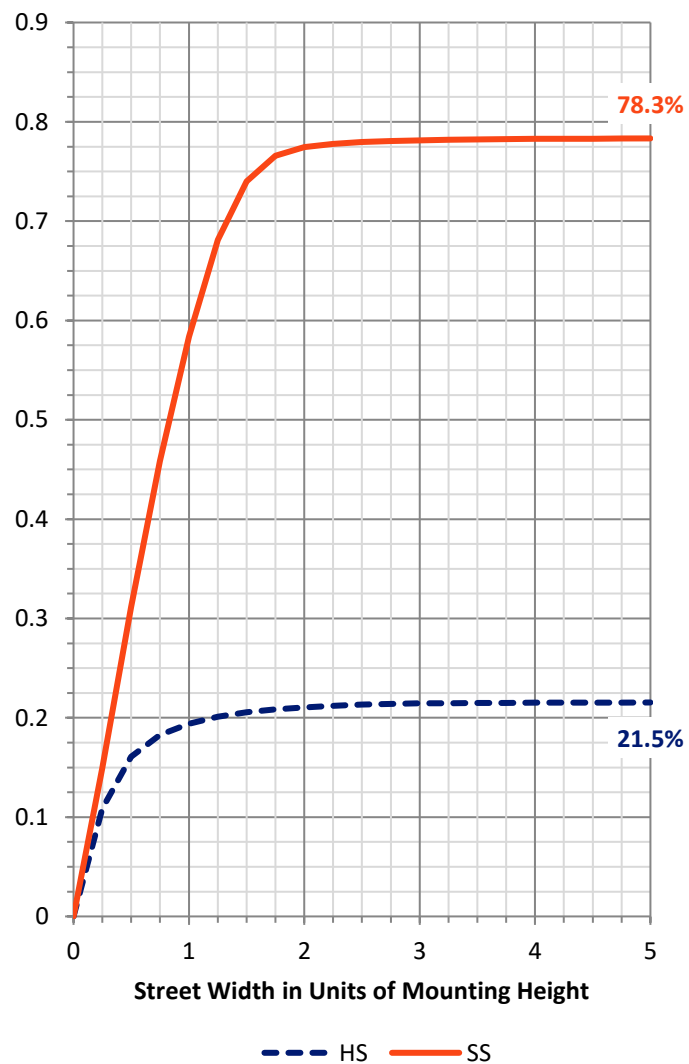
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4742.0	0.0	4742.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17062.0	0.0	17062.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	21804.0	0.0	21804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	1.9
10°-20°	1296.5	5.9
20°-30°	2351.5	10.8
30°-40°	3693.8	16.9
40°-50°	5388.6	24.7
50°-60°	6492.2	29.8
60°-70°	1900.8	8.7
70°-80°	241.1	1.1
80°-90°	33.8	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°	21804.0	100.0
0°-180°	21804.0	100.0

Coefficient of Utilization



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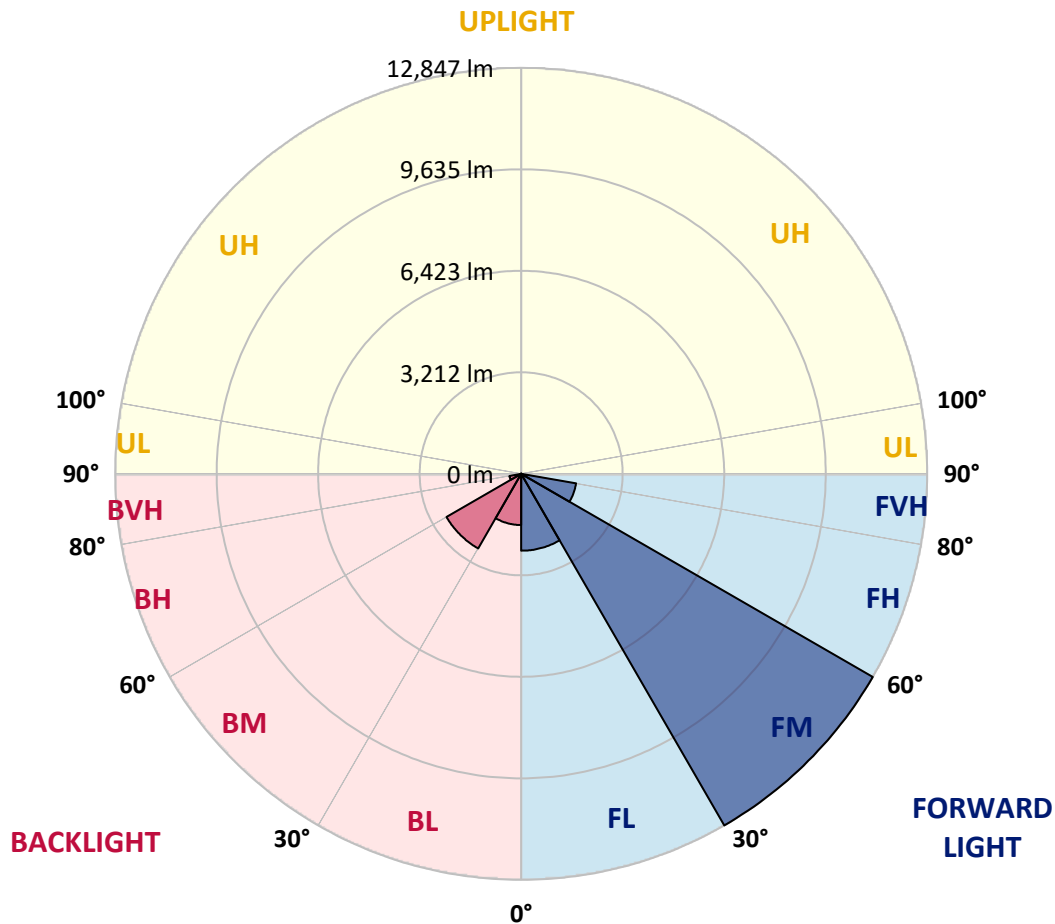
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2432.9	11.2			
FM	(30°-60°)	12847.0	58.9			
FH	(60°-80°)	1765.2	8.1			G1/1800
FVH	(80°-90°)	17.0	0.1			G1/100
BL	(0°-30°)	1620.8	7.4	B3/2500		
BM	(30°-60°)	2727.5	12.5	B3/5000		
BH	(60°-80°)	376.8	1.7	B1/500		G1/500
BVH	(80°-90°)	16.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6
2.5°	4240.0	4220.2	4220.2	4188.4	4224.1	4208.2	4220.2	4180.5	4220.2	4160.6	4208.2
5°	4259.9	4263.8	4247.9	4267.8	4267.8	4291.6	4251.9	4287.6	4307.5	4263.8	4244.0
7.5°	4363.1	4371.0	4367.0	4351.2	4382.9	4379.0	4375.0	4347.2	4355.1	4339.3	4315.4
10°	4565.5	4561.6	4581.4	4541.7	4517.9	4545.7	4553.6	4510.0	4478.2	4466.3	4390.9
12.5°	4859.3	4811.7	4783.9	4744.2	4756.1	4716.4	4787.9	4712.4	4696.6	4625.1	4549.7
15°	5097.5	5089.6	5093.6	5030.0	4958.6	4974.5	4974.5	4934.8	4910.9	4823.6	4716.4
17.5°	5585.8	5419.1	5454.8	5375.4	5315.9	5311.9	5276.2	5284.1	5220.6	5038.0	4875.2
20°	5967.0	5895.5	5839.9	5704.9	5613.6	5641.4	5625.5	5585.8	5566.0	5327.8	5097.5
22.5°	6308.4	6332.2	6240.9	6205.2	6078.1	6090.0	6121.8	6086.1	5935.2	5689.1	5347.6
25°	6788.8	6761.0	6637.9	6594.2	6475.1	6518.8	6641.9	6614.1	6518.8	6074.2	5542.2
27.5°	7356.5	7261.2	7285.0	7086.5	6971.4	7094.5	7241.4	7380.3	7110.3	6526.7	5772.4
30°	7757.5	7658.2	7650.3	7642.3	7614.5	7757.5	7928.2	8055.2	7836.9	6979.3	6153.6
32.5°	7956.0	7979.8	8047.3	8023.5	8265.6	8559.4	8738.1	8920.7	8646.8	7717.8	6657.8
35°	8484.0	8333.1	8484.0	8499.9	8750.0	9373.3	9599.6	10036.3	9968.8	8761.9	7273.1
37.5°	8793.6	8781.7	8801.6	8952.4	9194.6	9964.8	10286.4	10623.8	10496.8	9389.1	8039.3
40°	9305.8	9337.5	9333.6	9448.7	9714.7	10409.4	10540.5	10814.4	10826.3	10258.6	9166.8
42.5°	10127.6	10000.5	9917.2	10036.3	10409.4	10794.5	11056.6	11001.0	11394.0	11314.6	10615.9
45°	10866.0	10941.4	10818.4	11016.9	11151.8	11358.3	11350.3	11469.4	11969.7	12346.8	11707.7
47.5°	11556.8	11604.4	11664.0	11799.0	12092.7	12124.5	12057.0	12005.4	12696.2	13085.3	12553.3
50°	11969.7	12013.3	12291.2	12533.4	13081.3	13152.7	13192.4	13061.4	13529.9	13573.6	13351.2
52.5°	11858.5	11906.2	12295.2	13093.2	13966.6	14621.7	14502.6	14280.2	14252.4	14423.2	14089.7
55°	10873.9	10830.3	11366.2	12608.9	14244.5	15816.6	15832.5	15598.3	15149.7	15034.5	13978.5
56°	10036.3	9865.6	10548.4	12049.1	13887.2	15713.4	15892.1	15642.0	15221.1	14705.0	13291.7
57.5°	8222.0	8384.7	9063.6	10306.2	12652.5	14971.0	15074.2	15014.7	14697.1	13831.6	11695.7
60°	4533.8	4819.6	5419.1	6939.6	9008.0	11489.3	11572.7	12057.0	12116.6	10592.1	8047.3
62.5°	1925.5	1893.7	2517.0	3636.6	5129.3	6935.7	7090.5	7586.7	7678.1	6105.9	4037.5
65°	782.1	825.8	1139.4	1830.2	2711.5	3160.2	3378.5	3541.3	3843.0	2521.0	1488.8
67.5°	516.1	512.1	670.9	1044.1	1461.0	1409.4	1409.4	1488.8	1377.6	1028.2	643.1
70°	369.2	381.1	480.4	722.5	909.1	674.9	647.1	619.3	702.7	678.9	520.1
72.5°	242.2	258.1	321.6	432.7	472.4	369.2	369.2	444.6	579.6	547.9	424.8
75°	158.8	162.8	198.5	250.1	234.2	190.6	210.4	297.8	420.8	404.9	301.7
77.5°	107.2	111.2	135.0	162.8	131.0	107.2	115.1	150.9	206.4	206.4	158.8
80°	39.7	43.7	55.6	51.6	59.6	75.4	83.4	103.2	123.1	123.1	107.2
82.5°	0.0	4.0	11.9	27.8	43.7	59.6	67.5	79.4	91.3	103.2	99.3
85°	0.0	4.0	11.9	19.9	31.8	35.7	39.7	27.8	23.8	23.8	19.9
87.5°	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	7.9	4.0	4.0
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°	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6	4164.6
2.5°	4164.6	4160.6	4160.6	4148.7	4172.5	4160.6	4168.5	4164.6	4113.0	4152.7	4124.9
5°	4208.2	4236.0	4192.4	4184.4	4152.7	4164.6	4164.6	4124.9	4160.6	4156.6	4148.7
7.5°	4319.4	4271.8	4224.1	4176.5	4168.5	4156.6	4113.0	4097.1	4124.9	4093.1	4140.8
10°	4367.0	4375.0	4303.5	4240.0	4180.5	4097.1	4037.5	4001.8	3958.1	4005.8	4033.6
12.5°	4585.4	4506.0	4382.9	4283.7	4081.2	3997.8	3938.3	3922.4	3997.8	4013.7	3985.9
15°	4660.8	4648.9	4490.1	4267.8	4057.4	3958.1	3970.0	3938.3	3946.2	3906.5	3914.5
17.5°	4815.7	4680.7	4494.1	4216.2	4053.4	4029.6	3958.1	3831.1	3759.6	3727.9	3755.7
20°	4986.4	4855.4	4585.4	4236.0	4089.1	4025.6	3791.4	3636.6	3489.7	3410.3	3414.2
22.5°	5137.2	4974.5	4545.7	4244.0	4120.9	3858.9	3577.0	3271.3	3088.7	2965.6	2969.6
25°	5319.9	5089.6	4561.6	4259.9	4037.5	3592.9	3187.9	2890.2	2671.8	2588.5	2616.3
27.5°	5423.1	5161.1	4648.9	4295.6	3819.2	3215.7	2779.0	2501.1	2374.1	2334.4	2330.4
30°	5732.7	5319.9	4756.1	4224.1	3453.9	2810.8	2405.8	2235.1	2112.1	2076.3	2084.3
32.5°	6193.3	5609.7	4895.1	4037.5	3080.8	2449.5	2163.7	2036.6	1921.5	1854.0	1846.1
35°	6578.4	6105.9	5042.0	3747.7	2648.0	2171.6	1993.0	1834.2	1659.5	1584.0	1564.2
37.5°	7312.8	6665.7	5010.2	3311.0	2235.1	1965.2	1810.3	1615.8	1464.9	1361.7	1349.8
40°	8289.4	7320.8	4855.4	2779.0	1929.4	1782.5	1615.8	1429.2	1242.6	1155.3	1147.3
42.5°	9476.5	8122.7	4573.5	2239.1	1623.7	1599.9	1449.1	1234.7	1067.9	1004.4	1008.4
45°	10441.2	8809.5	4287.6	1798.4	1397.5	1421.3	1290.3	1087.8	972.7	921.0	921.0
47.5°	11298.7	9274.0	3978.0	1484.8	1187.0	1242.6	1127.5	1008.4	909.1	869.4	861.5
50°	12124.5	9746.5	3668.3	1202.9	1012.4	1067.9	1056.0	960.8	881.3	833.7	837.7
52.5°	12640.6	9821.9	3275.3	984.6	885.3	948.8	988.5	901.2	813.9	786.1	778.1
55°	12009.4	8849.2	2540.8	809.9	750.3	833.7	909.1	809.9	742.4	694.8	690.8
56°	11159.8	7912.3	2124.0	746.4	710.6	801.9	881.3	774.2	698.7	670.9	651.1
57.5°	9448.7	6475.1	1568.2	663.0	659.0	746.4	837.7	738.4	651.1	627.3	627.3
60°	5891.5	3644.5	948.8	555.8	571.7	663.0	754.3	659.0	579.6	579.6	591.5
62.5°	2683.7	1516.6	575.7	472.4	492.3	571.7	670.9	595.5	551.8	595.5	603.4
65°	913.1	655.1	416.9	377.2	389.1	472.4	575.7	603.4	599.5	627.3	643.1
67.5°	512.1	420.8	349.4	313.6	305.7	349.4	472.4	603.4	579.6	567.7	575.7
70°	432.7	357.3	309.7	277.9	266.0	281.9	365.2	456.6	408.9	397.0	389.1
72.5°	349.4	297.8	270.0	250.1	214.4	182.6	166.7	174.7	194.5	206.4	226.3
75°	246.1	226.3	226.3	202.5	154.8	115.1	91.3	75.4	51.6	35.7	39.7
77.5°	139.0	139.0	142.9	123.1	99.3	75.4	55.6	39.7	19.9	7.9	4.0
80°	95.3	103.2	111.2	99.3	83.4	67.5	47.6	27.8	11.9	0.0	0.0
82.5°	95.3	107.2	115.1	99.3	83.4	63.5	47.6	27.8	11.9	4.0	0.0
85°	19.9	23.8	27.8	31.8	47.6	47.6	35.7	23.8	11.9	4.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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)