

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: P529267

Luminaire Tested: **GALN-SA4B-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13343 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

Input Watts (W): 164
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

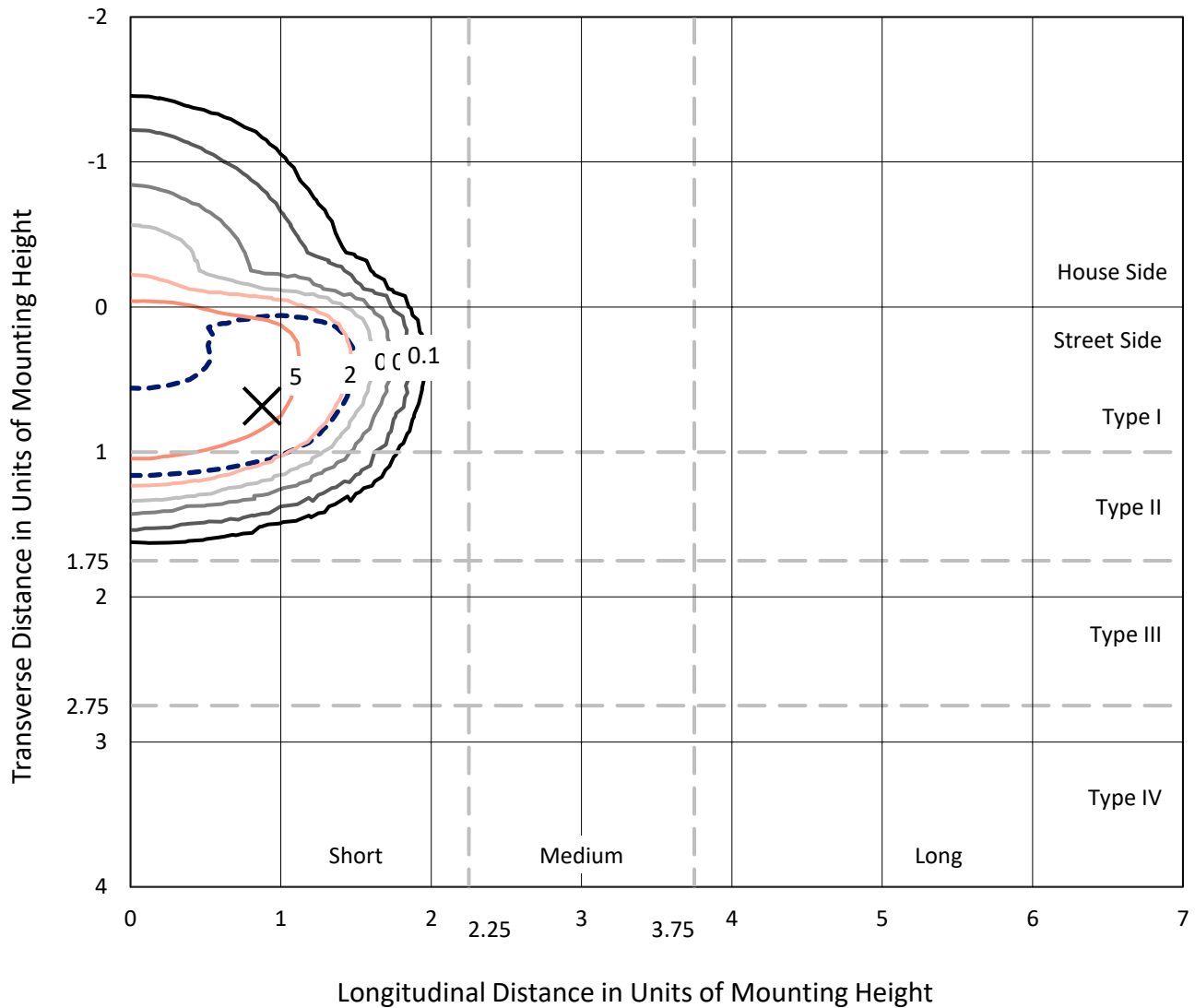


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

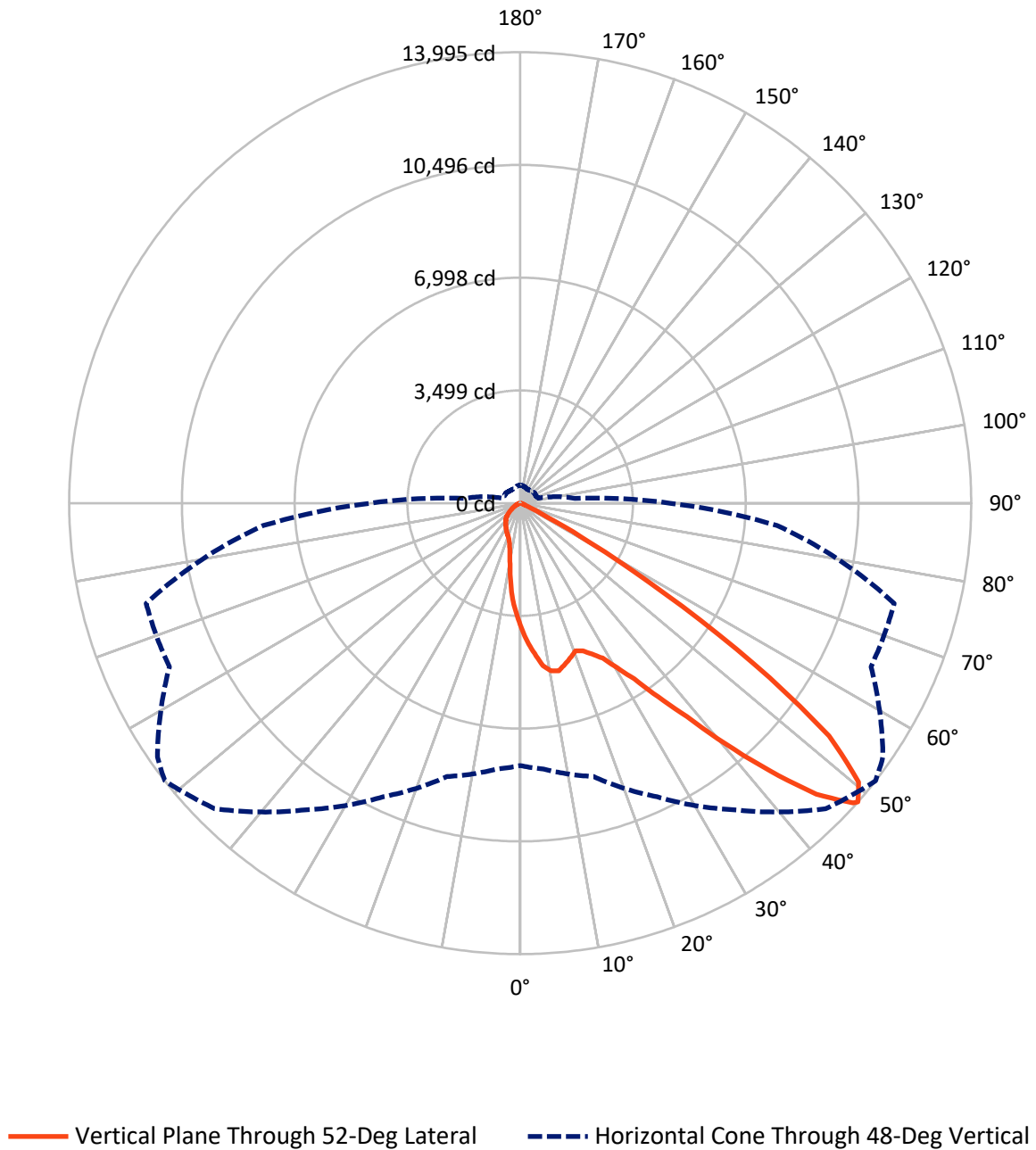


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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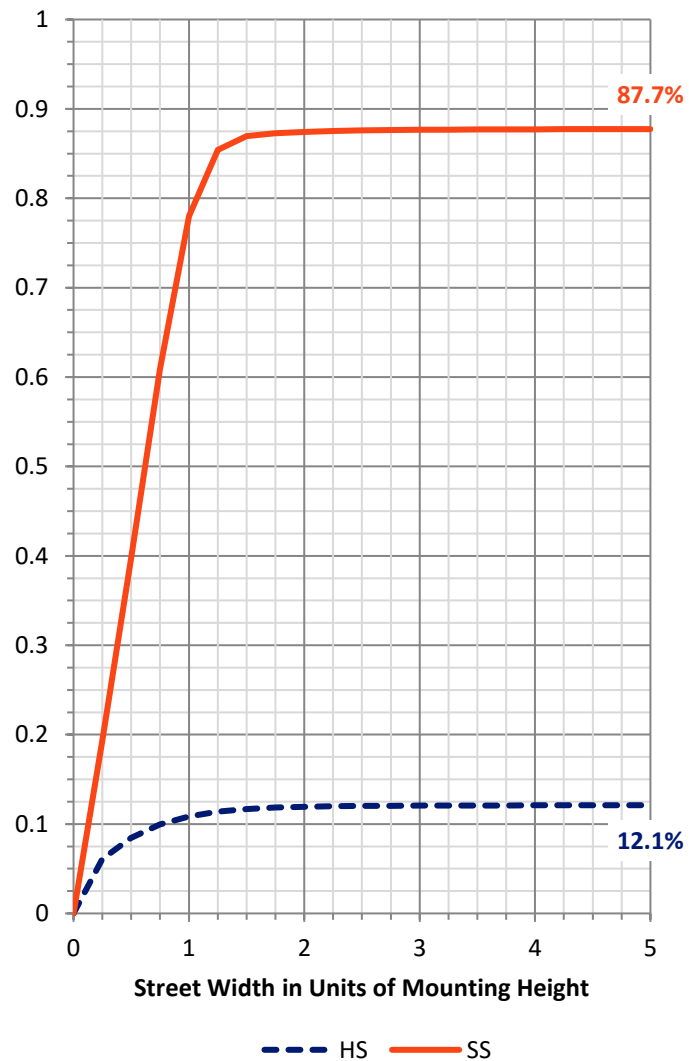
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1624.6	0.0	1624.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11718.4	0.0	11718.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	13343.0	0.0	13343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.7	2.6
10°-20°	921.7	6.9
20°-30°	1573.7	11.8
30°-40°	2897.9	21.7
40°-50°	4500.5	33.7
50°-60°	2708.5	20.3
60°-70°	313.3	2.3
70°-80°	60.6	0.5
80°-90°	14.0	0.1
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°	13343.0	100.0
0°-180°	13343.0	100.0

Coefficient of Utilization



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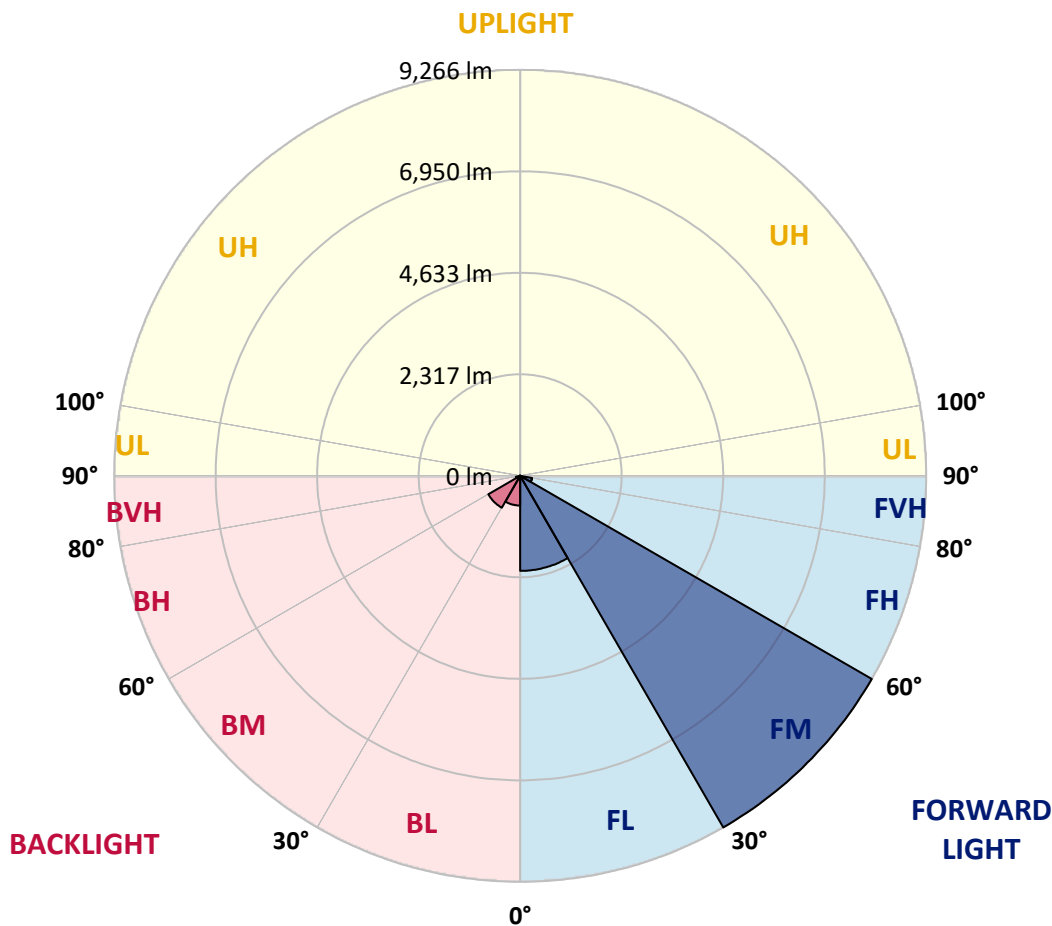
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2169.4	16.3			
FM	(30°-60°)	9266.5	69.4			
FH	(60°-80°)	275.9	2.1			G0/660
FVH	(80°-90°)	6.7	0.0			G0/10
BL	(0°-30°)	678.7	5.1	B2/1000		
BM	(30°-60°)	840.6	6.3	B1/1000		
BH	(60°-80°)	98.1	0.7	B0/110		G0/110
BVH	(80°-90°)	7.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2
2.5°	4670.2	4563.2	4572.9	4502.9	4462.1	4395.9	4306.4	4288.9	4191.7	4059.4	3925.2
5°	5090.3	5065.0	5098.1	4997.0	5000.8	4891.9	4681.8	4685.7	4462.1	4246.1	4038.0
7.5°	5117.5	5059.2	5092.3	5181.7	5234.3	5214.8	5096.2	4993.1	4781.0	4464.0	4160.6
10°	4582.6	4693.5	4728.5	4876.4	5086.4	5308.2	5294.6	5300.4	5123.4	4709.1	4265.6
12.5°	4261.7	4187.8	4306.4	4395.9	4713.0	5142.8	5339.3	5382.1	5395.7	4946.4	4370.6
15°	4115.8	4115.8	4135.3	4160.6	4390.1	4786.9	5187.6	5312.1	5605.8	5257.6	4536.0
17.5°	4207.2	4203.4	4230.6	4178.1	4263.7	4569.0	5047.5	5189.5	5841.1	5563.0	4666.3
20°	4485.4	4499.0	4481.5	4329.8	4335.6	4565.1	4891.9	5115.6	6000.6	5827.5	4839.4
22.5°	4872.5	4880.2	4781.0	4615.7	4567.1	4679.9	4981.4	5152.6	6129.0	6144.6	4891.9
25°	5319.8	5288.7	5269.3	5035.9	4888.0	4985.3	5183.7	5282.9	6208.7	6416.9	5041.7
27.5°	5940.3	5878.1	5759.4	5551.3	5442.4	5304.3	5446.3	5609.7	6436.3	6798.1	5205.1
30°	6856.5	6802.0	6570.5	6302.1	6016.2	5880.0	5924.8	6014.2	6846.7	7239.7	5421.0
32.5°	8235.5	8120.8	7786.2	7274.7	6885.6	6510.2	6498.6	6593.9	7214.4	7850.4	5677.7
35°	9754.7	9719.6	9227.5	8700.4	7947.7	7368.0	7377.8	7428.3	7918.5	8651.8	6014.2
37.5°	10764.2	10956.7	10643.6	10077.5	9445.4	8616.8	8406.7	8424.2	8885.2	9601.0	6621.1
40°	11544.1	11380.8	11417.7	11285.5	10853.6	10289.6	9824.7	9733.3	10003.6	10651.4	7224.1
42.5°	11203.8	11211.5	11439.1	11752.3	11859.3	11818.4	11343.8	11170.7	10960.6	11511.1	7797.9
45°	10242.9	10443.2	10738.9	11567.5	12295.0	12977.7	12884.3	12596.4	11622.0	12191.9	8128.6
47.5°	8710.1	8702.4	9186.7	10264.3	11880.7	13479.5	13903.6	13701.3	12090.7	12116.0	8060.5
48°	8144.1	8284.2	8784.1	10052.3	11618.1	13405.6	13995.0	13740.2	12011.0	12014.9	8002.1
50°	6020.1	5994.8	6617.2	8173.3	10377.1	12596.4	13609.8	13808.2	12009.0	11503.3	7593.7
52.5°	3180.2	3289.2	3742.4	5138.9	7336.9	10309.0	12005.1	12314.4	11585.0	10666.9	7006.2
55°	1351.8	1221.5	1569.7	2320.5	4127.5	6887.6	8807.4	9496.0	9795.5	9439.6	6129.0
57.5°	482.4	527.1	606.9	873.3	1735.0	3769.6	5251.8	5786.7	6786.4	6926.5	4176.1
60°	309.3	315.1	340.4	400.7	651.6	1453.0	2491.7	2917.6	3370.9	3479.8	1949.0
62.5°	239.2	241.2	252.9	262.6	309.3	564.1	935.6	1108.7	1151.5	990.1	511.6
65°	200.3	202.3	206.2	206.2	219.8	264.5	326.8	359.8	350.1	346.2	289.8
67.5°	153.7	157.6	165.3	165.3	173.1	161.4	180.9	192.6	217.9	264.5	247.0
70°	120.6	122.5	128.4	132.3	132.3	116.7	130.3	142.0	159.5	196.5	194.5
72.5°	93.4	97.3	101.1	101.1	95.3	79.7	93.4	103.1	114.8	136.2	132.3
75°	72.0	72.0	73.9	60.3	46.7	40.8	56.4	68.1	85.6	89.5	73.9
77.5°	19.5	21.4	19.5	17.5	19.5	29.2	37.0	42.8	54.5	54.5	48.6
80°	0.0	1.9	5.8	11.7	19.5	27.2	33.1	37.0	42.8	46.7	44.7
82.5°	0.0	1.9	5.8	11.7	17.5	21.4	29.2	31.1	35.0	40.8	40.8
85°	0.0	1.9	3.9	7.8	11.7	13.6	13.6	11.7	11.7	9.7	7.8
87.5°	0.0	0.0	1.9	3.9	3.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2	3853.2
2.5°	3872.7	3812.4	3721.0	3577.0	3438.9	3349.5	3263.9	3168.6	3116.0	3112.2	3083.0
5°	3919.4	3783.2	3565.4	3318.3	3053.8	2826.2	2596.7	2446.9	2312.7	2238.8	2225.2
7.5°	3944.7	3767.7	3415.6	3001.3	2550.0	2178.5	1921.8	1733.1	1659.2	1604.7	1602.8
10°	3997.2	3740.4	3191.9	2581.1	2022.9	1647.5	1470.5	1384.9	1344.1	1328.5	1305.2
12.5°	4036.1	3689.8	2962.4	2149.3	1598.9	1365.5	1287.7	1268.2	1270.1	1277.9	1268.2
15°	4090.5	3645.1	2653.1	1764.2	1342.1	1229.3	1229.3	1233.2	1260.4	1264.3	1262.4
17.5°	4086.6	3557.6	2334.1	1453.0	1186.5	1170.9	1176.8	1213.7	1231.2	1237.1	1223.5
20°	4133.3	3475.9	2005.4	1241.0	1099.0	1122.3	1161.2	1170.9	1192.3	1196.2	1180.7
22.5°	4119.7	3271.7	1700.0	1073.7	1032.8	1077.6	1116.5	1128.2	1122.3	1110.7	1108.7
25°	4094.4	3096.6	1419.9	962.8	984.2	1032.8	1069.8	1048.4	1036.7	1038.7	1040.6
27.5°	4049.7	2874.9	1188.5	885.0	918.1	990.1	988.1	980.3	992.0	982.3	992.0
30°	4041.9	2653.1	997.8	815.0	869.5	922.0	925.9	939.5	953.1	935.6	953.1
32.5°	4053.6	2410.0	861.7	772.2	840.3	842.2	885.0	898.6	888.9	850.0	853.9
35°	4143.1	2223.2	762.5	748.9	793.6	795.5	836.4	818.9	776.1	752.8	766.4
37.5°	4331.7	2067.6	715.8	727.5	731.4	756.6	758.6	723.6	727.5	725.5	733.3
40°	4572.9	1949.0	682.7	708.0	704.1	721.6	651.6	671.1	688.6	694.4	698.3
42.5°	4738.3	1863.4	661.3	676.9	669.1	638.0	599.1	618.5	632.2	653.6	657.4
45°	4812.2	1795.3	636.0	622.4	622.4	566.0	550.5	554.4	585.5	608.8	604.9
47.5°	4691.6	1729.2	591.3	550.5	564.1	517.4	499.9	499.9	533.0	562.1	556.3
48°	4644.9	1702.0	593.3	534.9	544.6	509.6	492.1	488.2	525.2	552.4	552.4
50°	4413.4	1600.8	542.7	492.1	472.7	468.8	457.1	461.0	484.3	509.6	509.6
52.5°	3962.2	1383.0	459.0	422.1	387.1	410.4	416.3	408.5	420.1	443.5	441.5
55°	3306.7	1062.0	367.6	350.1	322.9	348.2	359.8	350.1	338.4	356.0	356.0
57.5°	2118.2	571.9	293.7	297.6	270.4	295.7	305.4	282.0	260.6	274.3	272.3
60°	955.0	342.3	241.2	235.4	217.9	247.0	262.6	235.4	206.2	215.9	225.6
62.5°	357.9	243.1	182.8	178.9	175.1	202.3	210.1	188.7	159.5	165.3	167.3
65°	262.6	214.0	145.9	132.3	140.0	159.5	155.6	134.2	114.8	114.8	118.7
67.5°	223.7	186.7	118.7	103.1	103.1	105.0	97.3	85.6	79.7	83.6	87.5
70°	175.1	147.8	93.4	79.7	72.0	64.2	56.4	54.5	48.6	54.5	52.5
72.5°	112.8	99.2	72.0	60.3	54.5	44.7	37.0	35.0	29.2	27.2	27.2
75°	60.3	60.3	56.4	48.6	42.8	35.0	29.2	23.3	15.6	11.7	11.7
77.5°	42.8	46.7	50.6	46.7	38.9	29.2	23.3	15.6	7.8	3.9	3.9
80°	40.8	46.7	50.6	44.7	38.9	29.2	21.4	11.7	5.8	1.9	1.9
82.5°	37.0	42.8	46.7	40.8	35.0	25.3	19.5	11.7	5.8	1.9	1.9
85°	7.8	9.7	11.7	11.7	13.6	17.5	13.6	9.7	3.9	1.9	1.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	3.9	3.9	1.9	1.9	1.9
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)