

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: P529273

Luminaire Tested: **GALN-SA4B-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10460 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

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



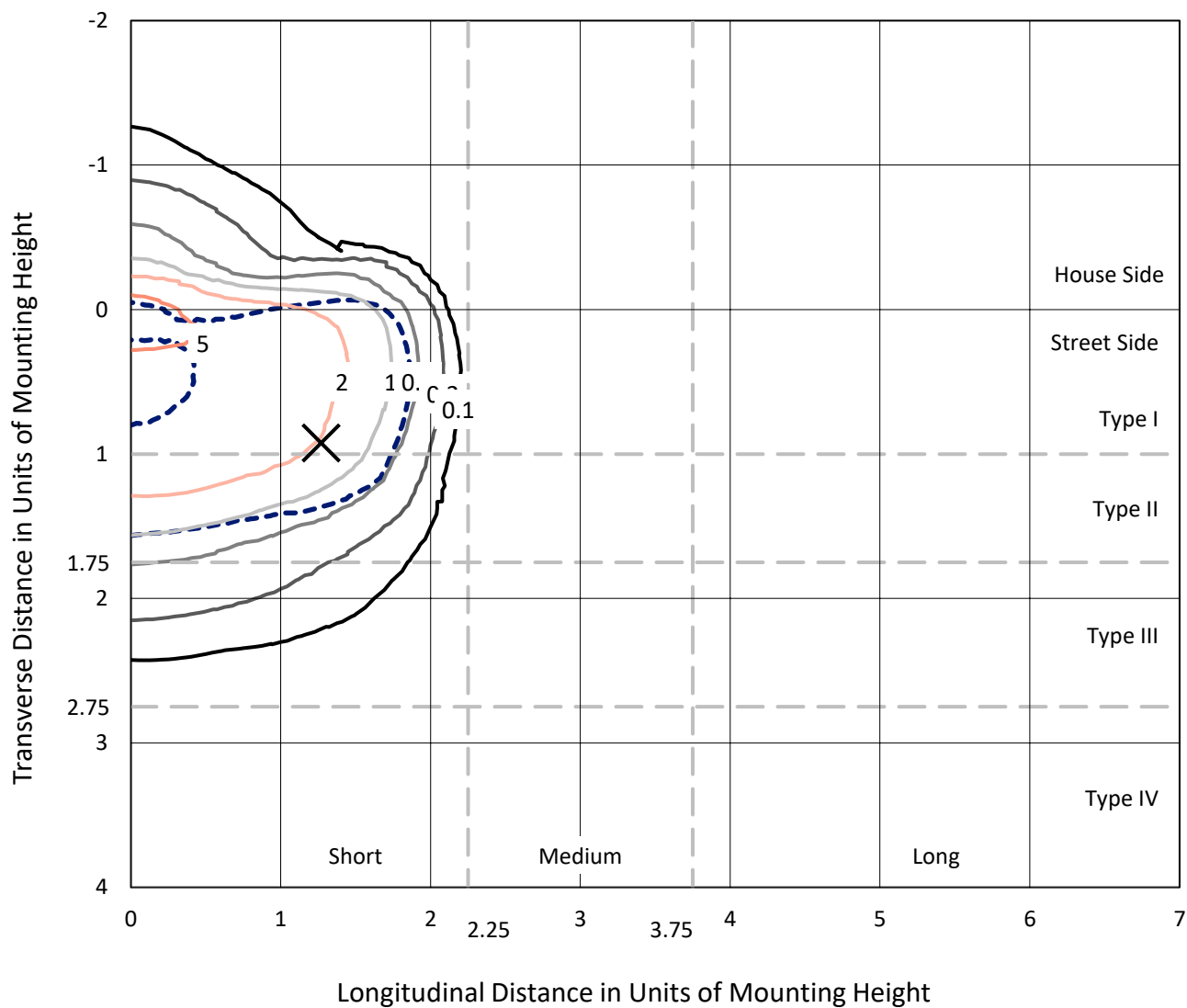
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

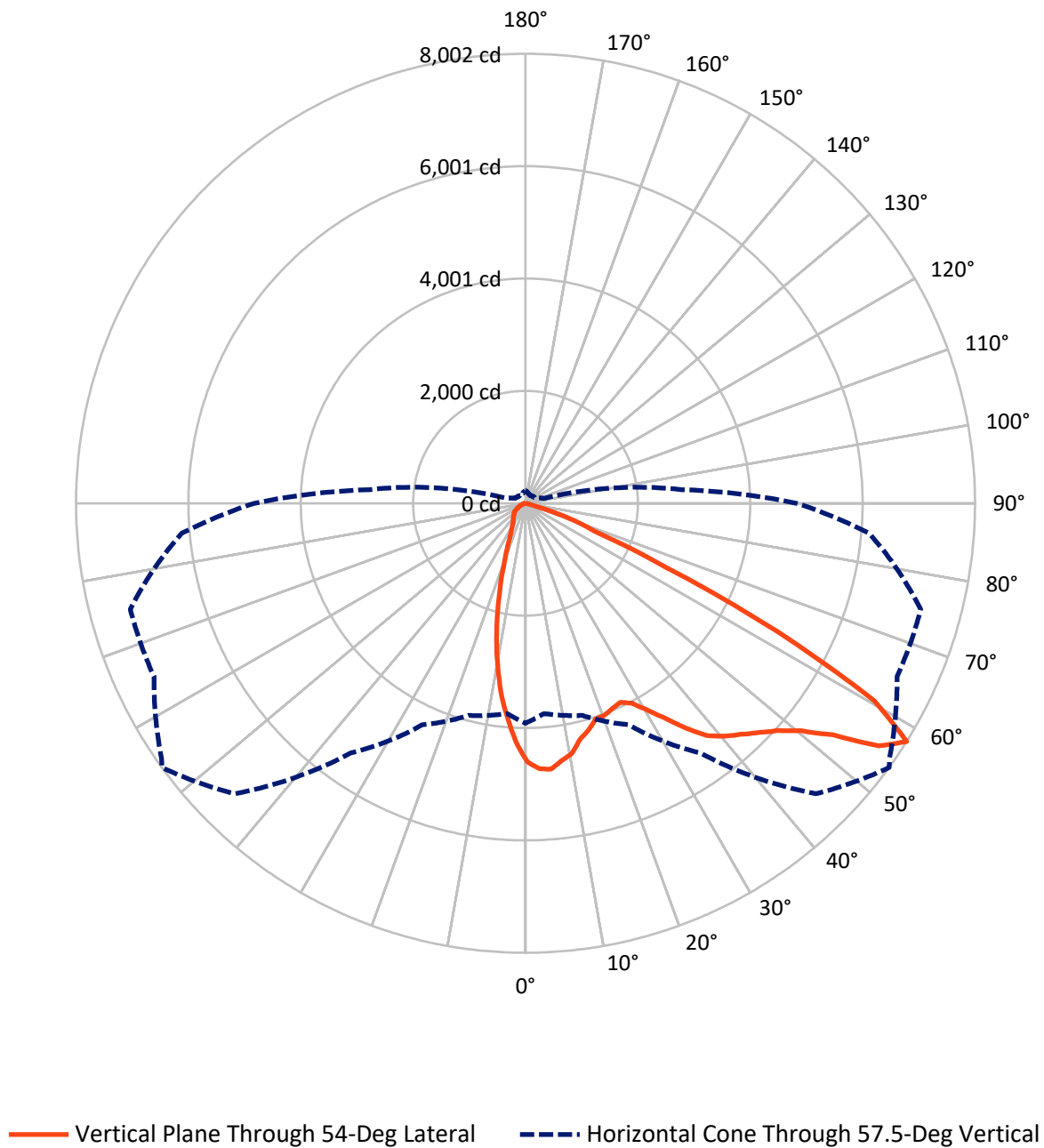


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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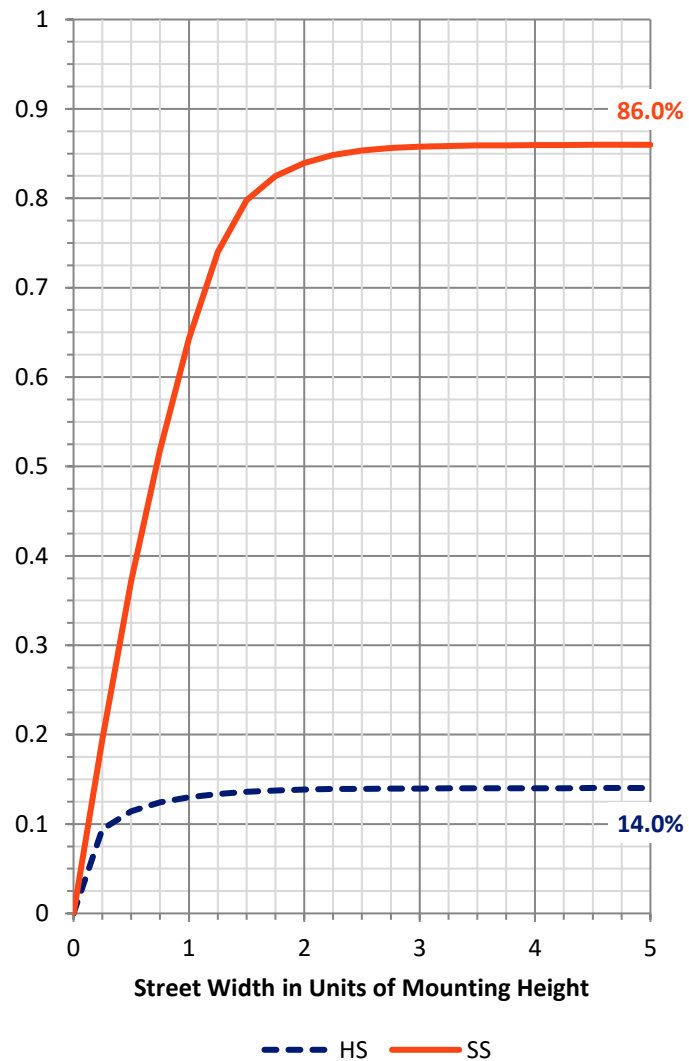
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.2	0.0	1478.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8981.8	0.0	8981.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	10460.0	0.0	10460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.6	3.7
10°-20°	823.2	7.9
20°-30°	1090.9	10.4
30°-40°	1585.4	15.2
40°-50°	2351.0	22.5
50°-60°	2939.8	28.1
60°-70°	1159.6	11.1
70°-80°	115.5	1.1
80°-90°	9.0	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°	10460.0	100.0
0°-180°	10460.0	100.0

Coefficient of Utilization



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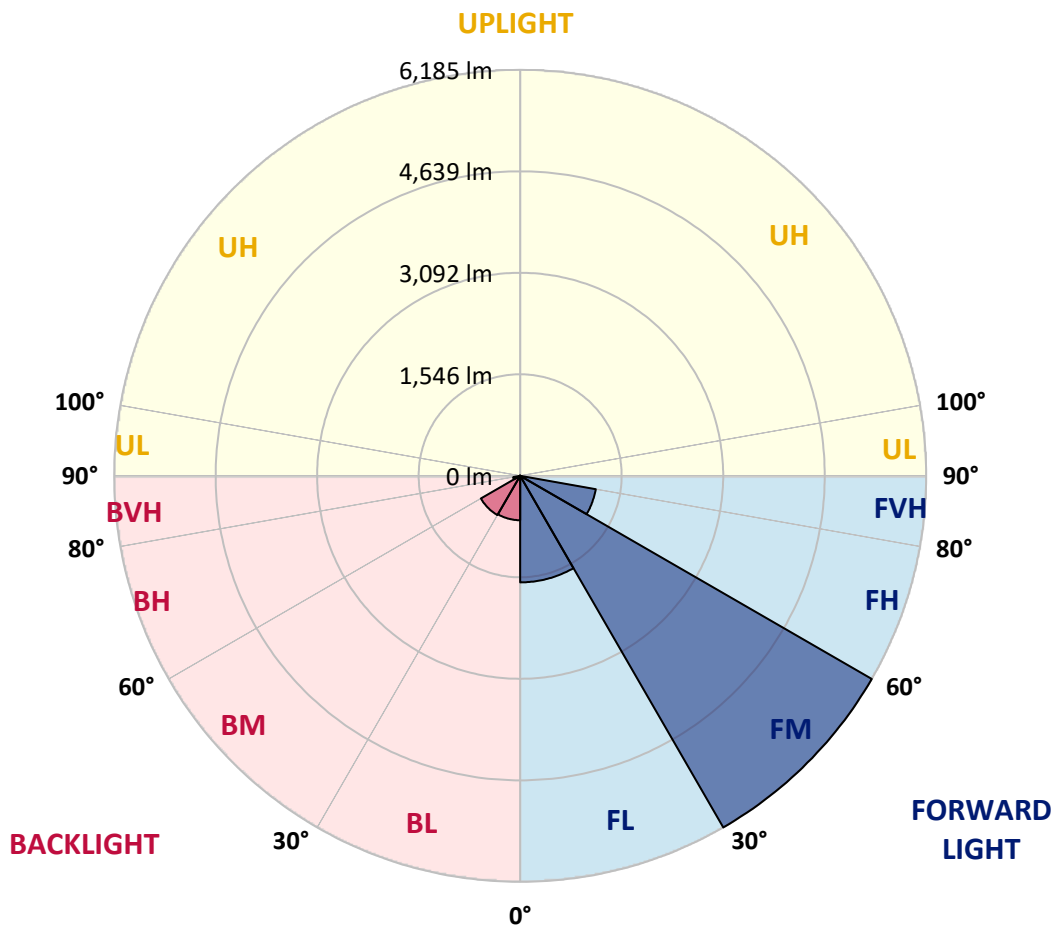
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1623.7	15.5			
FM	(30°-60°)	6185.0	59.1			
FH	(60°-80°)	1169.1	11.2			G1/1800
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	676.0	6.5	B2/1000		
BM	(30°-60°)	691.2	6.6	B1/1000		
BH	(60°-80°)	106.0	1.0	B0/110		G0/110
BVH	(80°-90°)	4.9	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8
2.5°	4876.2	4825.6	4829.5	4812.0	4788.7	4806.2	4730.3	4747.8	4745.9	4642.8	4574.7
5°	4753.6	4808.1	4751.7	4798.4	4753.6	4802.3	4755.6	4720.6	4664.2	4588.3	4461.9
7.5°	4545.5	4493.0	4508.6	4566.9	4576.7	4685.6	4627.2	4672.0	4648.6	4498.8	4325.7
10°	4127.3	4115.7	4193.5	4271.3	4366.6	4483.3	4528.0	4502.7	4485.2	4428.8	4197.4
12.5°	3806.4	3839.5	3837.5	3965.9	4127.3	4193.5	4310.2	4306.3	4403.5	4298.5	4076.8
15°	3501.1	3518.6	3600.2	3680.0	3858.9	4047.6	4191.5	4211.0	4327.7	4253.8	3983.4
17.5°	3314.3	3289.0	3353.2	3448.5	3631.4	3878.4	4037.9	4084.6	4244.1	4228.5	3876.4
20°	3129.5	3129.5	3182.1	3294.9	3462.1	3740.3	4024.3	4010.6	4244.1	4199.3	3761.7
22.5°	3067.3	3098.4	3112.0	3197.6	3396.0	3635.3	3965.9	3991.2	4277.1	4185.7	3711.1
25°	3152.9	3112.0	3115.9	3184.0	3370.7	3584.7	3923.1	3979.5	4337.4	4253.8	3670.3
27.5°	3166.5	3207.4	3219.0	3265.7	3390.2	3600.2	4030.1	4144.9	4487.2	4413.3	3681.9
30°	3285.2	3326.0	3324.1	3403.8	3489.4	3726.7	4269.3	4292.7	4796.4	4613.6	3753.9
32.5°	3429.1	3471.9	3485.5	3578.9	3646.9	3958.1	4561.1	4621.4	5094.0	4928.7	3942.6
35°	3608.0	3592.5	3654.7	3748.1	3893.9	4296.6	4917.0	5018.2	5415.0	5337.2	4137.1
37.5°	3831.7	3812.3	3872.6	4024.3	4222.7	4697.2	5245.7	5311.9	5648.4	5716.4	4496.9
40°	3989.3	3997.0	4179.9	4384.1	4594.2	5078.5	5453.9	5518.0	5811.7	6070.4	4769.2
42.5°	4251.8	4300.5	4520.2	4769.2	4989.0	5364.4	5623.1	5685.3	5887.6	6354.4	5136.8
45°	4633.1	4611.7	4854.8	5132.9	5376.1	5662.0	5823.4	5802.0	5932.3	6636.4	5368.3
47.5°	5123.2	5127.1	5288.5	5525.8	5778.7	5920.7	6047.1	5971.2	6025.7	6934.0	5677.5
50°	5457.7	5486.9	5617.2	5860.4	5986.8	6204.6	6366.1	6319.4	6301.9	7113.0	5872.0
52.5°	5543.3	5630.9	5700.9	6004.3	6299.9	6644.2	6850.4	6949.6	6638.4	7173.3	6119.1
55°	4897.6	4975.4	5222.4	5638.6	6418.6	7340.5	7624.5	7626.5	7078.0	7441.7	6292.2
57.5°	3915.3	3757.8	3909.5	4351.0	5426.6	7311.4	8001.8	7910.4	7297.7	7284.1	6142.4
60°	2707.5	2668.6	2678.3	2853.4	3755.8	5815.6	7130.5	7249.1	6720.1	6313.6	4862.6
62.5°	2145.4	2112.3	2069.5	2050.1	2332.1	3623.6	5029.8	5197.1	4699.2	4094.3	2882.5
65°	1680.5	1661.1	1666.9	1744.7	1742.7	2055.9	2750.3	2682.2	2147.3	1587.1	906.4
67.5°	1134.0	1163.1	1186.5	1421.8	1542.4	1431.5	1328.5	1289.6	698.3	293.7	200.3
70°	638.0	641.9	667.1	888.9	1170.9	1110.6	916.1	916.1	348.2	107.0	114.8
72.5°	348.2	336.5	313.1	383.2	521.3	529.0	408.5	355.9	103.1	70.0	64.2
75°	169.2	167.3	143.9	118.6	112.8	93.4	72.0	66.1	46.7	44.7	38.9
77.5°	35.0	33.1	17.5	17.5	19.5	21.4	27.2	27.2	33.1	33.1	27.2
80°	0.0	0.0	1.9	7.8	13.6	19.5	23.3	23.3	27.2	27.2	21.4
82.5°	0.0	0.0	1.9	5.8	11.7	17.5	21.4	23.3	27.2	29.2	23.3
85°	0.0	0.0	0.0	3.9	9.7	13.6	11.7	11.7	9.7	7.8	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8	4607.8
2.5°	4539.7	4535.8	4446.3	4395.8	4304.3	4224.6	4160.4	4113.7	4113.7	4084.6	4057.3
5°	4411.3	4378.3	4187.6	4065.1	3892.0	3763.6	3676.1	3608.0	3501.1	3530.2	3415.5
7.5°	4251.8	4168.2	3915.3	3728.6	3489.4	3306.5	3119.8	2954.5	2795.0	2723.0	2761.9
10°	4080.7	3934.8	3594.4	3298.8	3001.2	2666.6	2448.8	2184.3	2020.9	2011.2	1968.4
12.5°	3899.8	3734.5	3320.2	2911.7	2520.8	2118.1	1785.5	1538.5	1427.7	1305.1	1328.5
15°	3763.6	3518.6	3014.8	2522.7	2003.4	1596.9	1262.3	1071.7	966.7	937.5	927.8
17.5°	3615.8	3353.2	2703.6	2108.4	1571.6	1149.5	908.3	816.9	776.1	776.1	770.2
20°	3462.1	3166.5	2394.3	1723.3	1178.7	857.8	727.4	698.3	696.3	694.4	694.4
22.5°	3361.0	2952.6	2114.2	1369.3	888.9	686.6	632.1	620.5	628.2	651.6	651.6
25°	3254.0	2746.4	1805.0	1056.2	688.5	589.3	558.2	566.0	585.5	606.8	599.1
27.5°	3145.1	2612.2	1513.2	828.6	564.1	515.4	503.8	521.3	542.7	562.1	556.3
30°	3119.8	2468.2	1237.0	628.2	484.3	449.3	457.1	472.6	494.0	501.8	509.6
32.5°	3158.7	2355.4	1013.4	515.4	422.1	412.3	412.3	420.1	433.7	451.2	445.4
35°	3269.6	2291.2	801.4	447.4	387.1	377.3	375.4	383.2	391.0	396.8	391.0
37.5°	3438.8	2240.7	655.5	396.8	363.7	348.2	344.3	342.3	350.1	352.1	355.9
40°	3654.7	2267.9	556.3	365.7	340.4	322.9	311.2	311.2	311.2	317.0	319.0
42.5°	3888.1	2304.9	480.4	348.2	319.0	297.6	285.9	282.0	285.9	293.7	291.8
45°	4133.2	2376.8	431.8	320.9	299.5	272.3	256.7	252.9	262.6	278.1	276.2
47.5°	4362.7	2479.9	394.8	303.4	280.1	254.8	235.3	231.5	249.0	270.4	272.3
50°	4592.2	2658.9	381.2	289.8	266.5	237.3	219.8	215.9	235.3	262.6	268.4
52.5°	4856.7	2851.4	371.5	272.3	250.9	223.7	204.2	200.3	221.7	256.7	258.7
55°	5029.8	3014.8	363.7	241.2	221.7	202.3	186.7	184.8	208.1	239.2	247.0
57.5°	4827.6	2787.2	336.5	210.1	188.7	178.9	165.3	165.3	184.8	214.0	219.8
60°	3660.5	1834.2	239.2	169.2	159.5	153.7	147.8	147.8	163.4	184.8	186.7
62.5°	2143.4	988.1	153.7	136.2	136.2	130.3	120.6	120.6	136.2	147.8	149.8
65°	636.0	317.0	124.5	116.7	114.8	105.0	95.3	93.4	105.0	110.9	108.9
67.5°	182.8	145.9	103.1	97.3	95.3	79.7	73.9	72.0	73.9	70.0	68.1
70°	108.9	99.2	79.7	81.7	72.0	58.4	52.5	50.6	46.7	40.8	37.0
72.5°	60.3	60.3	58.4	62.2	50.6	38.9	33.1	27.2	21.4	17.5	15.6
75°	37.0	38.9	40.8	42.8	33.1	25.3	21.4	13.6	7.8	3.9	3.9
77.5°	25.3	27.2	29.2	31.1	27.2	23.3	17.5	9.7	1.9	0.0	0.0
80°	19.5	21.4	25.3	27.2	29.2	31.1	23.3	9.7	1.9	0.0	0.0
82.5°	21.4	23.3	29.2	27.2	27.2	27.2	21.4	9.7	1.9	0.0	0.0
85°	3.9	5.8	9.7	9.7	13.6	17.5	13.6	3.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)