

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: P648424

Luminaire Tested: **GALN-SA5B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13023.7 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

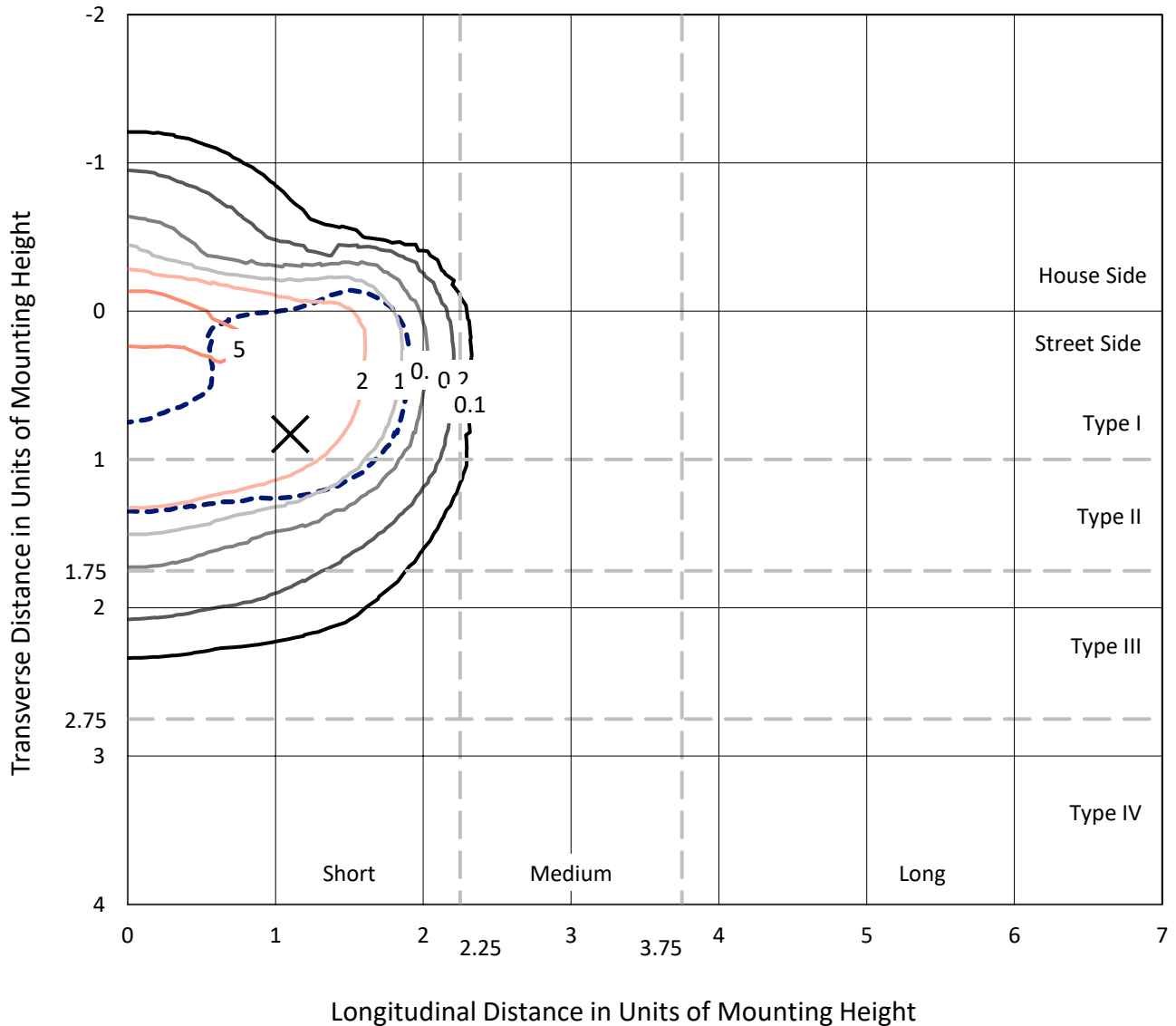
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

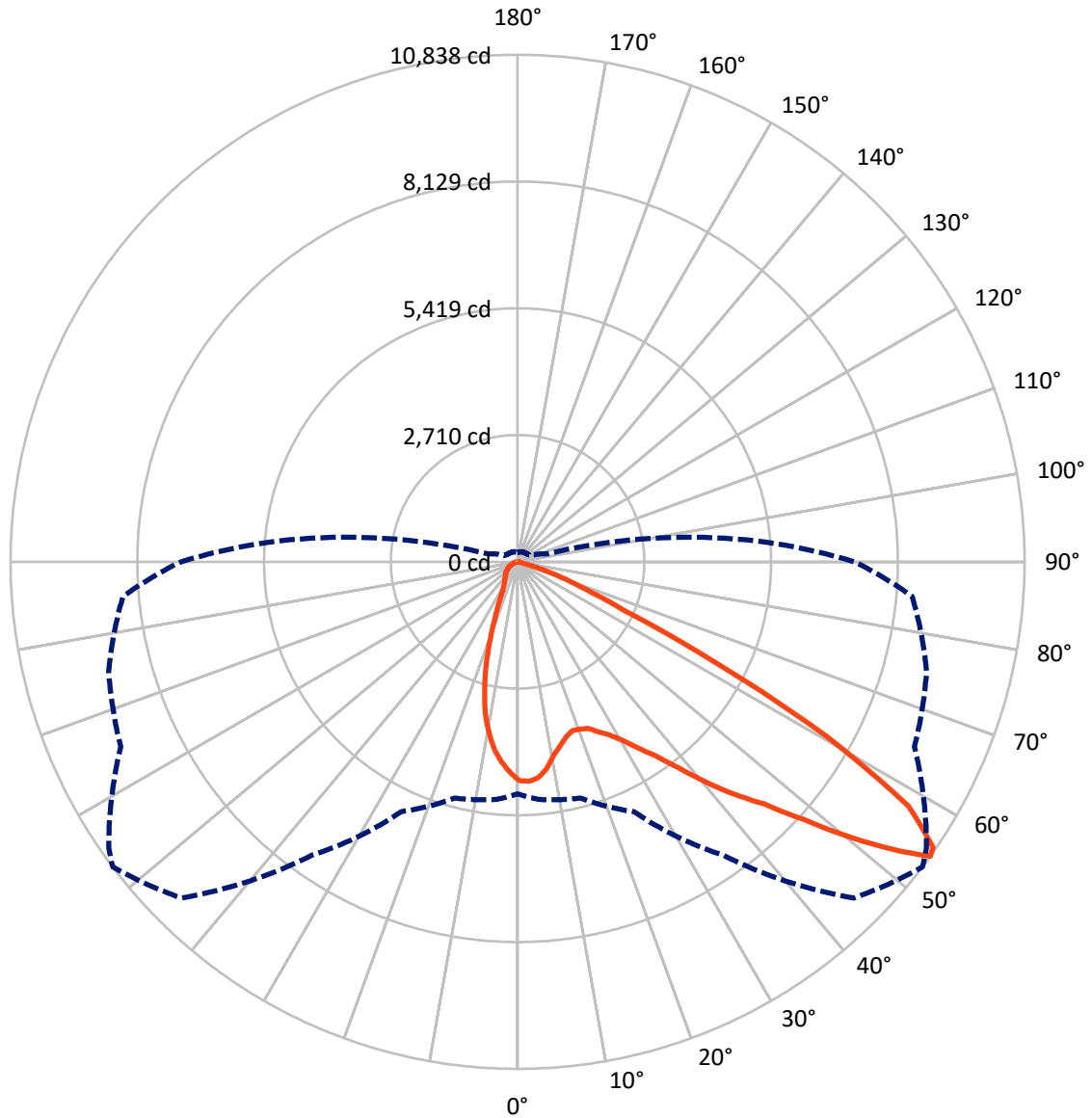
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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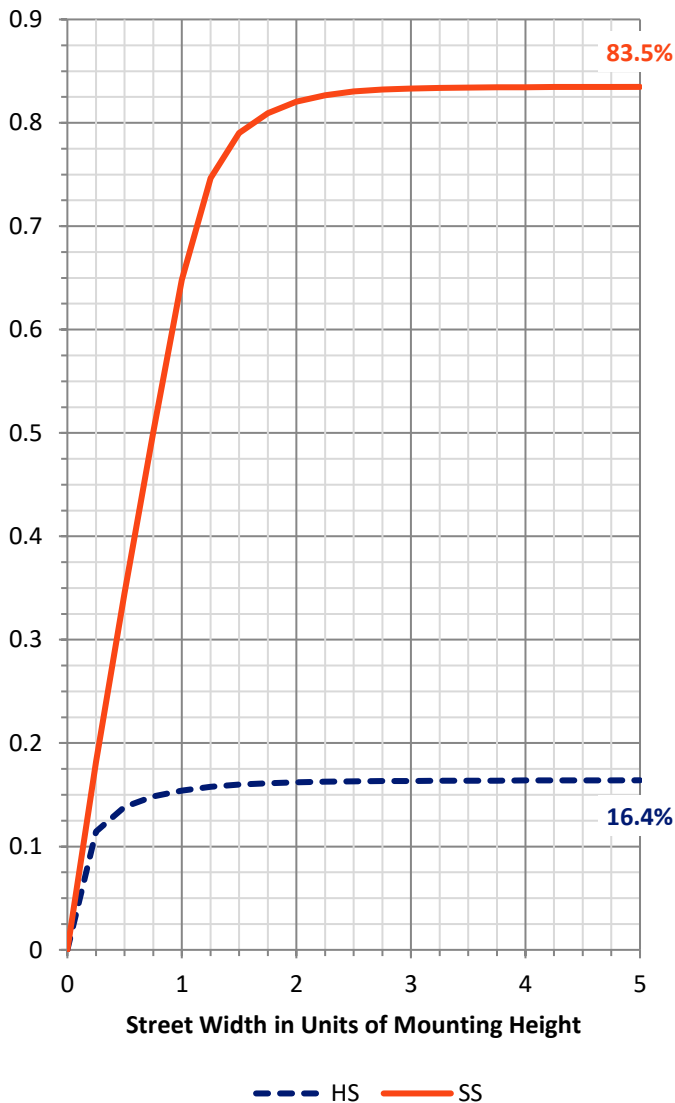
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2154.8	0.0	2154.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10868.9	0.0	10868.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13023.7	0.0	13023.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.4	3.1
10°-20°	920.2	7.1
20°-30°	1307.8	10.0
30°-40°	2018.2	15.5
40°-50°	3164.4	24.3
50°-60°	3675.9	28.2
60°-70°	1389.0	10.7
70°-80°	132.1	1.0
80°-90°	14.9	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°	13023.7	100.0
0°-180°	13023.7	100.0

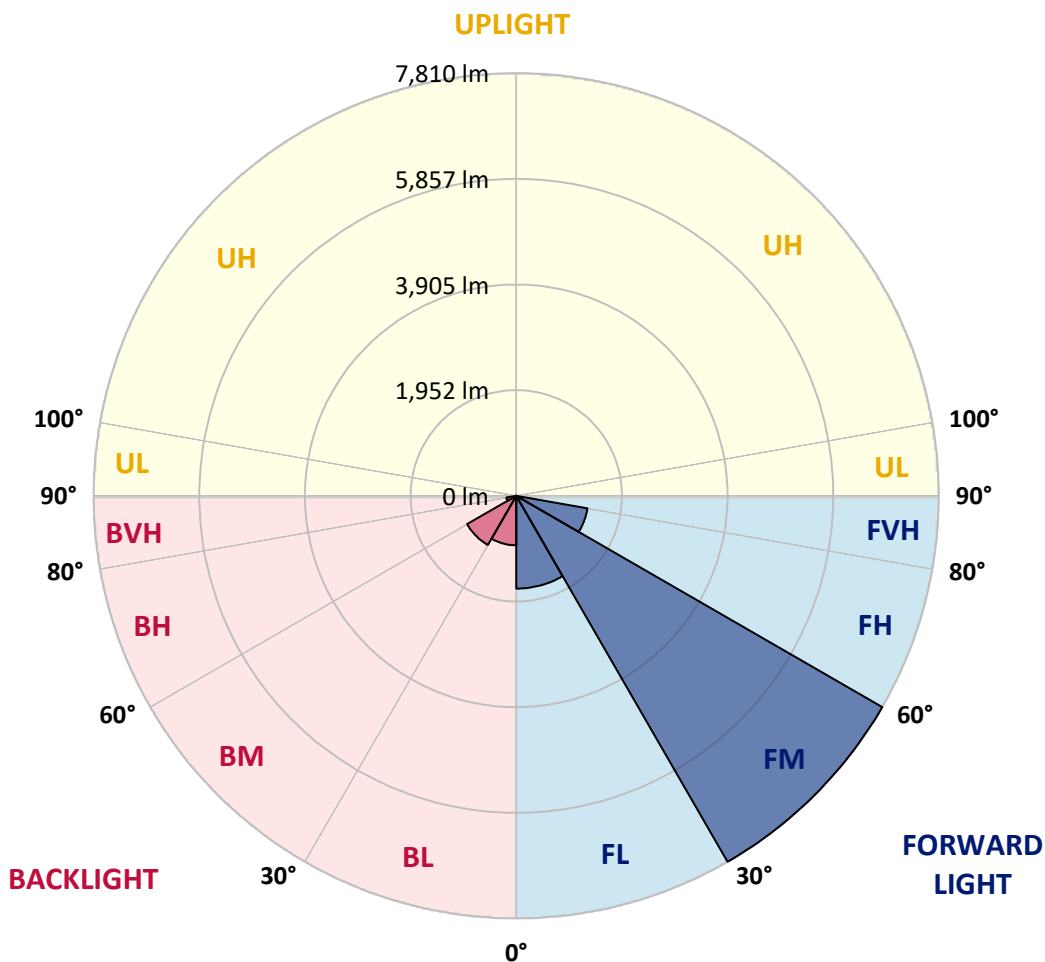


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.9	13.2			
FM (30°-60°)	7809.9	60.0			
FH (60°-80°)	1336.4	10.3			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	914.4	7.0	B2/1000		
BM (30°-60°)	1048.6	8.1	B2/2500		
BH (60°-80°)	184.6	1.4	B1/500		G1/500
BVH (80°-90°)	7.2	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9
2.5°	4653.6	4612.3	4653.6	4658.5	4687.6	4714.3	4697.3	4736.1	4714.3	4690.0	4682.7
5°	4277.5	4333.4	4335.8	4423.1	4403.7	4563.9	4634.2	4614.8	4733.7	4726.4	4709.4
7.5°	3940.3	3918.4	3947.6	4049.4	4178.1	4362.5	4464.4	4461.9	4631.8	4753.1	4741.0
10°	3627.3	3624.9	3685.5	3765.6	3874.8	4068.9	4209.6	4280.0	4544.5	4728.9	4755.6
12.5°	3416.2	3406.5	3472.0	3537.5	3709.8	3860.2	4039.7	4073.7	4377.0	4643.9	4687.6
15°	3277.9	3299.7	3304.6	3430.8	3539.9	3738.9	3879.6	3950.0	4299.4	4575.9	4743.4
17.5°	3253.7	3282.7	3285.2	3389.5	3506.0	3673.4	3797.2	3891.7	4233.8	4609.9	4745.8
20°	3302.1	3285.2	3299.7	3365.3	3479.3	3639.4	3819.0	3850.5	4212.0	4626.9	4772.5
22.5°	3440.5	3435.6	3399.2	3452.6	3532.7	3700.1	3869.9	3918.4	4275.1	4714.3	4794.3
25°	3593.3	3620.0	3586.1	3578.8	3634.6	3799.6	4025.2	4088.3	4486.2	4872.0	4862.3
27.5°	3879.6	3852.9	3852.9	3819.0	3804.4	3884.5	4192.7	4296.9	4721.6	5075.8	4939.9
30°	4153.8	4182.9	4161.1	4173.2	4076.1	4068.9	4430.4	4559.0	5138.8	5386.3	5104.9
32.5°	4588.1	4549.3	4585.6	4554.2	4425.5	4294.5	4753.1	4886.5	5643.6	5743.0	5352.4
35°	4949.6	4932.7	5087.9	5083.1	4874.4	4745.8	5095.2	5294.2	5995.4	6170.0	5643.6
37.5°	5464.0	5432.5	5609.6	5694.4	5507.6	5316.0	5585.3	5815.8	6322.9	6512.1	5942.0
40°	5992.9	6072.9	6310.7	6451.5	6252.5	5997.8	6184.6	6254.9	6541.3	6735.4	6145.8
42.5°	6662.5	6779.1	7021.6	7143.0	7126.0	6849.4	6793.6	6791.2	6699.0	6672.3	6296.2
45°	7305.5	7261.9	7635.5	7900.0	8113.5	8033.4	7380.7	7308.0	6948.9	6766.9	6335.0
47.5°	7587.0	7572.4	7827.2	8297.9	9025.8	9125.2	8234.8	7953.3	7371.0	7164.8	6546.1
50°	7223.0	7298.3	7550.6	8072.3	9188.3	9947.8	9282.9	8904.4	7863.6	7650.1	7045.9
52.5°	6034.2	6085.1	6325.3	6987.7	8635.2	10433.0	10287.4	10069.1	8768.6	8414.4	7917.0
54°	4961.7	5097.6	5228.6	5893.4	7650.1	10163.7	10838.2	10670.8	9358.2	9050.1	8465.3
55°	4321.2	4401.2	4495.9	5158.2	6968.3	9707.6	10775.1	10789.7	9753.7	9249.0	8834.1
57.5°	3156.6	3212.4	3115.3	3408.9	4784.6	7883.0	9855.5	10248.6	10287.4	9547.4	9059.7
60°	2411.7	2436.0	2326.8	2372.9	2974.6	5410.6	7623.4	8096.5	9280.5	8344.0	7674.3
62.5°	1870.7	1875.5	1873.1	1953.2	2050.2	3183.3	4767.6	5187.4	6398.1	5925.0	5211.6
65°	1378.2	1356.3	1395.1	1637.7	1749.4	2001.7	2511.2	2816.9	3476.8	2935.8	2098.8
67.5°	892.9	900.1	939.0	1218.0	1499.4	1535.9	1545.6	1521.3	1523.7	839.5	526.5
70°	536.2	548.3	536.2	689.0	1072.4	1101.5	1006.9	982.7	766.7	199.0	196.5
72.5°	317.8	300.8	269.4	296.0	446.5	533.8	480.4	477.9	300.8	116.4	116.4
75°	133.4	121.3	99.4	89.8	118.9	114.0	114.0	101.9	80.1	77.7	72.8
77.5°	26.7	26.7	19.4	21.8	29.1	34.0	41.3	41.3	48.5	48.5	46.1
80°	0.0	2.4	7.3	14.6	21.8	31.6	36.4	36.4	41.3	41.3	34.0
82.5°	0.0	2.4	7.3	14.6	19.4	29.1	36.4	36.4	41.3	43.7	36.4
85°	0.0	2.4	7.3	12.1	19.4	24.3	24.3	21.8	17.0	14.6	9.7
87.5°	0.0	0.0	2.4	4.9	2.4	4.9	4.9	4.9	4.9	4.9	4.9
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°	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9
2.5°	4699.7	4697.3	4639.0	4544.5	4522.6	4442.5	4432.8	4384.3	4411.0	4321.2	4311.5
5°	4660.9	4631.8	4561.4	4500.8	4323.6	4197.5	4098.0	3976.7	3906.3	3918.4	3872.3
7.5°	4716.7	4641.5	4517.8	4306.7	4090.7	3869.9	3751.0	3503.5	3413.8	3280.3	3261.0
10°	4658.5	4602.6	4411.0	4061.6	3763.2	3445.4	3166.3	2892.2	2683.5	2593.7	2574.3
12.5°	4653.6	4556.6	4236.3	3848.1	3416.2	2960.1	2554.9	2212.8	2006.5	1890.1	1863.4
15°	4578.4	4461.9	4039.7	3518.1	2921.2	2353.5	1911.9	1582.0	1424.2	1356.3	1375.7
17.5°	4585.6	4411.0	3843.2	3168.7	2433.6	1727.5	1305.3	1135.5	1094.2	1111.2	1111.2
20°	4578.4	4296.9	3605.5	2765.9	1863.4	1198.6	958.4	897.7	924.4	977.8	965.7
22.5°	4539.6	4243.5	3387.1	2341.3	1370.9	888.0	769.1	771.6	812.8	878.3	892.9
25°	4568.7	4124.7	3110.5	1911.9	999.7	708.5	667.2	684.2	727.9	776.4	786.1
27.5°	4546.9	4039.7	2821.8	1484.9	730.3	609.0	606.6	626.0	645.4	681.8	681.8
30°	4571.2	3962.1	2537.9	1104.0	601.7	558.0	548.3	562.9	582.3	589.6	587.2
32.5°	4660.9	3903.9	2210.3	825.0	531.3	509.5	509.5	509.5	507.1	516.8	519.2
35°	4857.4	3913.6	1921.6	638.1	485.2	468.2	461.0	451.3	446.5	451.3	453.7
37.5°	5070.9	3908.7	1623.2	543.5	451.3	436.8	419.8	405.2	402.8	407.6	400.3
40°	5165.5	3954.9	1346.6	487.7	419.8	402.8	376.1	363.9	366.4	371.2	366.4
42.5°	5294.2	3969.4	1167.1	444.0	390.6	363.9	346.9	332.4	330.0	337.2	334.8
45°	5291.7	3886.9	977.8	419.8	363.9	334.8	313.0	300.8	300.8	305.7	308.1
47.5°	5447.0	3874.8	839.5	397.9	344.5	315.4	288.7	279.1	276.6	276.6	271.8
50°	5808.5	4044.6	732.7	373.6	320.2	293.5	271.8	259.6	249.9	245.1	242.7
52.5°	6514.6	4573.5	650.3	344.5	293.5	271.8	252.4	242.7	230.5	218.4	216.0
54°	7198.7	5119.5	645.4	320.2	271.8	257.2	240.2	235.4	220.8	203.8	199.0
55°	7506.9	5437.3	662.3	300.8	257.2	247.5	232.9	228.1	213.5	194.1	191.7
57.5°	7761.6	5561.0	652.7	249.9	232.9	230.5	218.4	211.1	194.1	167.4	162.6
60°	6247.7	4204.7	468.2	220.8	213.5	208.7	199.0	194.1	172.3	143.1	140.7
62.5°	3947.6	2419.0	298.4	194.1	186.8	179.5	167.4	162.6	143.1	114.0	106.7
65°	1681.4	1002.1	201.4	172.3	160.1	148.0	138.3	131.0	114.0	85.0	82.5
67.5°	436.8	356.7	167.4	150.4	133.4	116.4	109.2	97.0	77.7	58.3	55.8
70°	196.5	179.5	140.7	126.1	106.7	89.8	80.1	68.0	51.0	38.8	36.4
72.5°	116.4	114.0	106.7	94.6	80.1	68.0	58.3	46.1	34.0	21.8	21.8
75°	72.8	70.4	72.8	65.5	55.8	51.0	43.7	31.6	19.4	9.7	9.7
77.5°	43.7	43.7	43.7	41.3	38.8	38.8	31.6	19.4	9.7	2.4	2.4
80°	34.0	34.0	36.4	34.0	34.0	34.0	26.7	14.6	4.9	0.0	0.0
82.5°	34.0	36.4	41.3	38.8	34.0	29.1	24.3	14.6	4.9	0.0	0.0
85°	9.7	7.3	12.1	17.0	24.3	21.8	17.0	12.1	4.9	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	2.4	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)