

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: P454533

Luminaire Tested: **GALN-SA5C-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25666 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

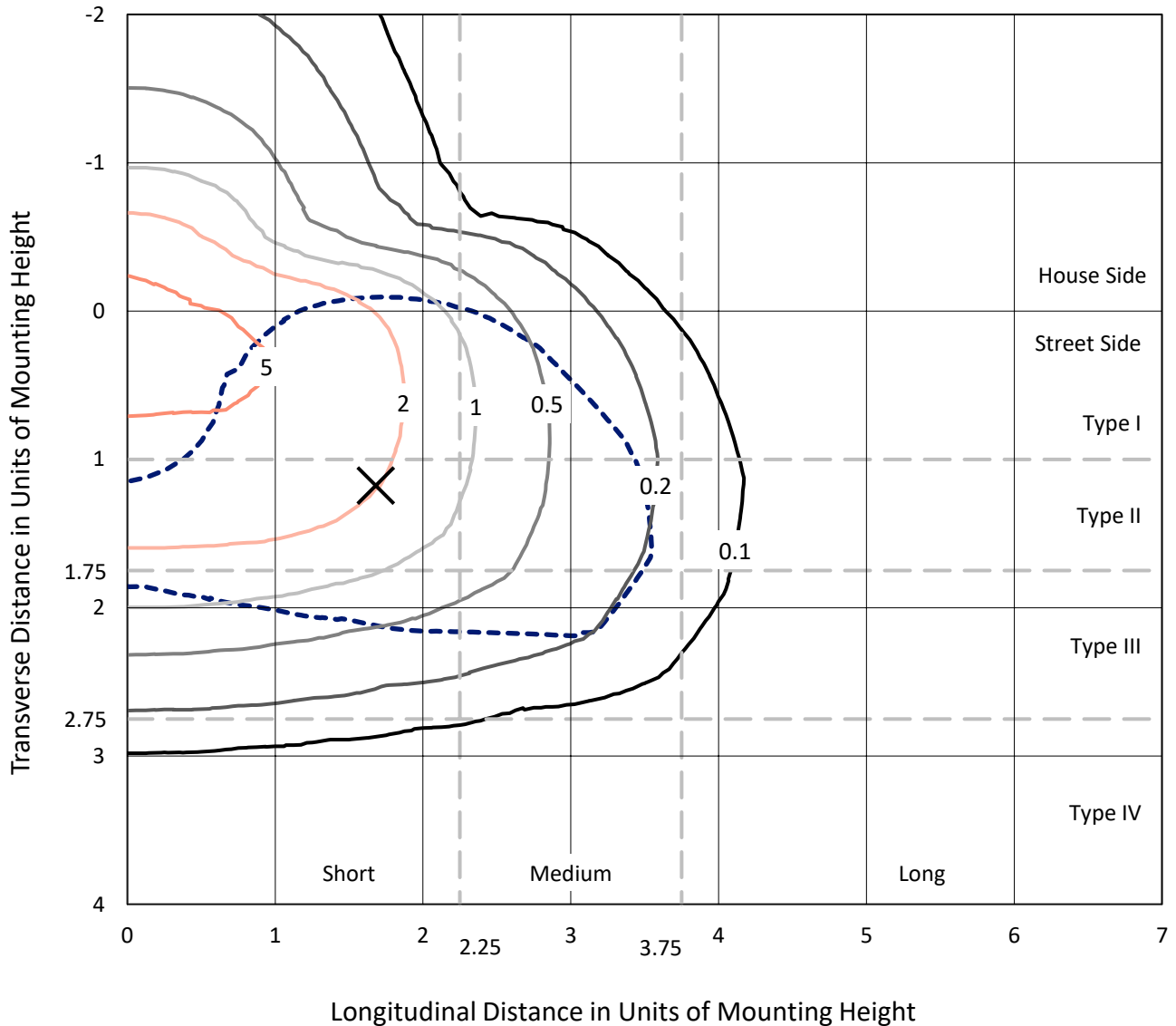
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

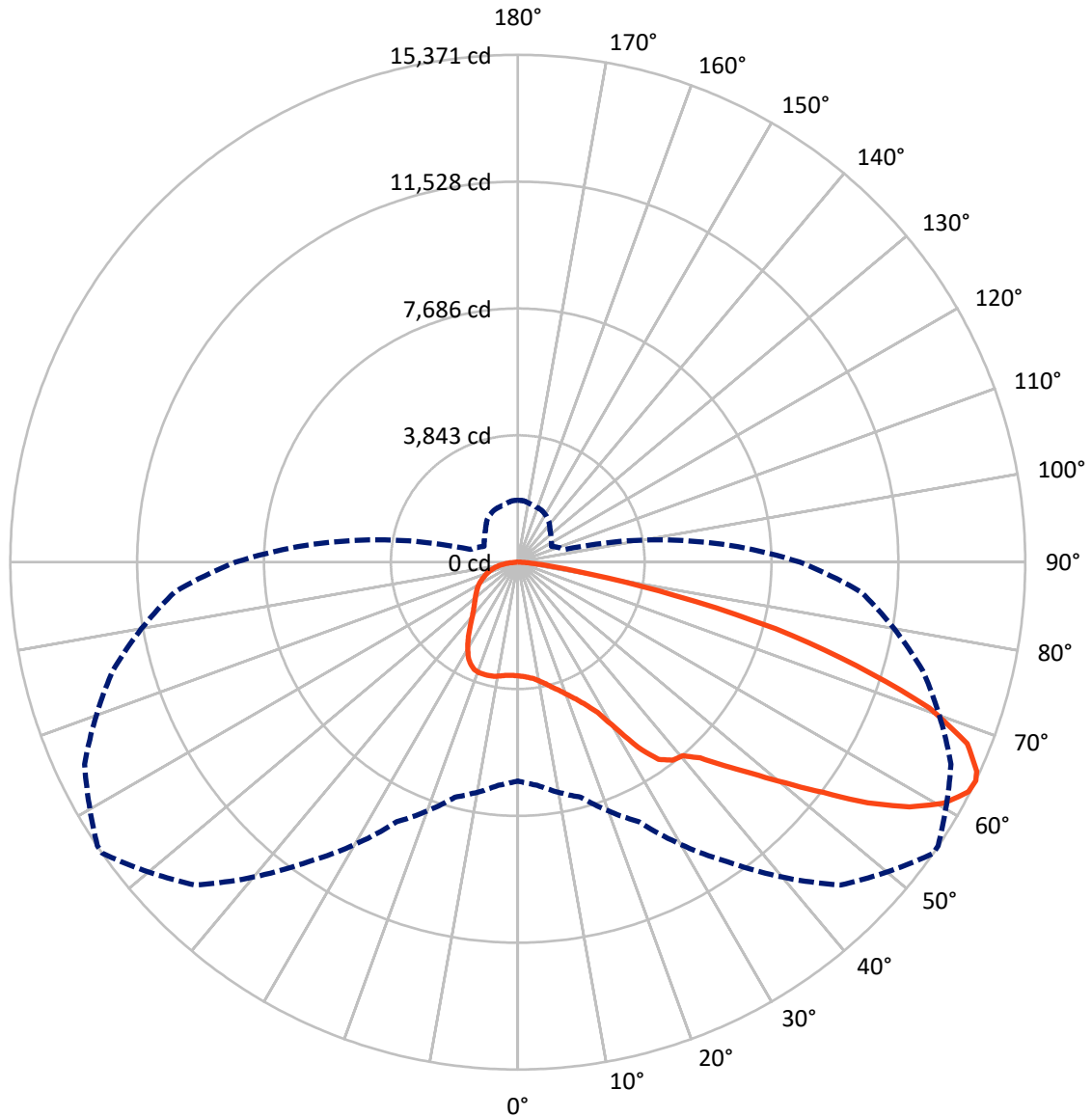
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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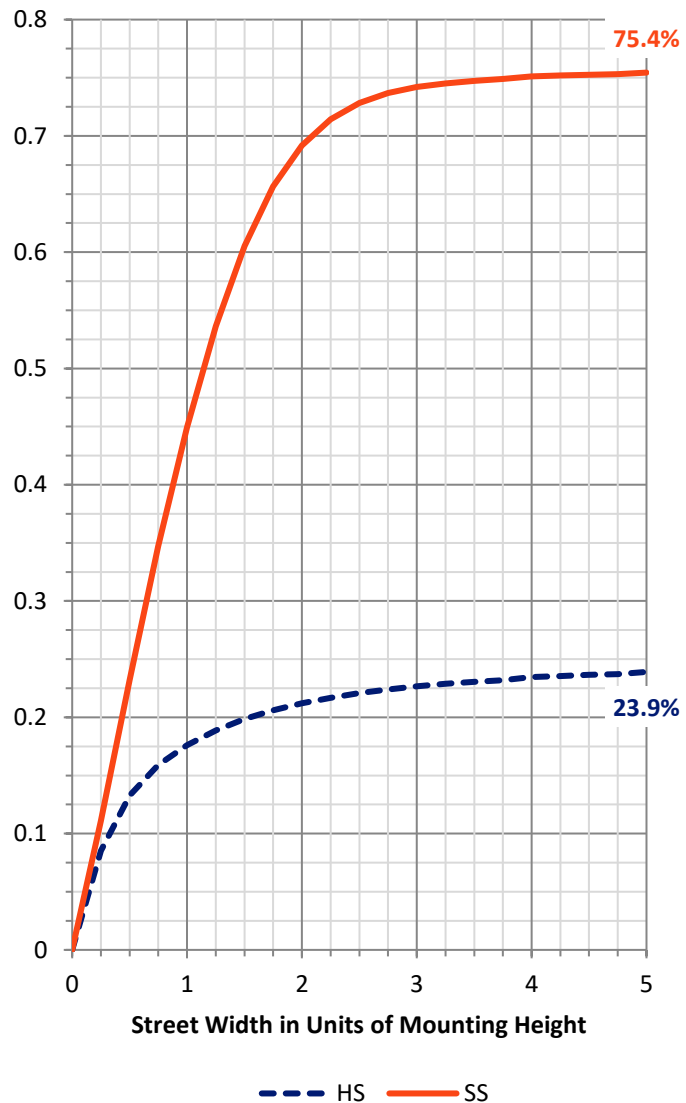
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6234.8	0.0	6234.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	19431.2	0.0	19431.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	25666.0	0.0	25666.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	1.3
10°-20°	1056.9	4.1
20°-30°	1881.6	7.3
30°-40°	2895.1	11.3
40°-50°	4104.0	16.0
50°-60°	5940.5	23.1
60°-70°	6147.7	24.0
70°-80°	2879.0	11.2
80°-90°	426.2	1.7
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°	25666.0	100.0
0°-180°	25666.0	100.0



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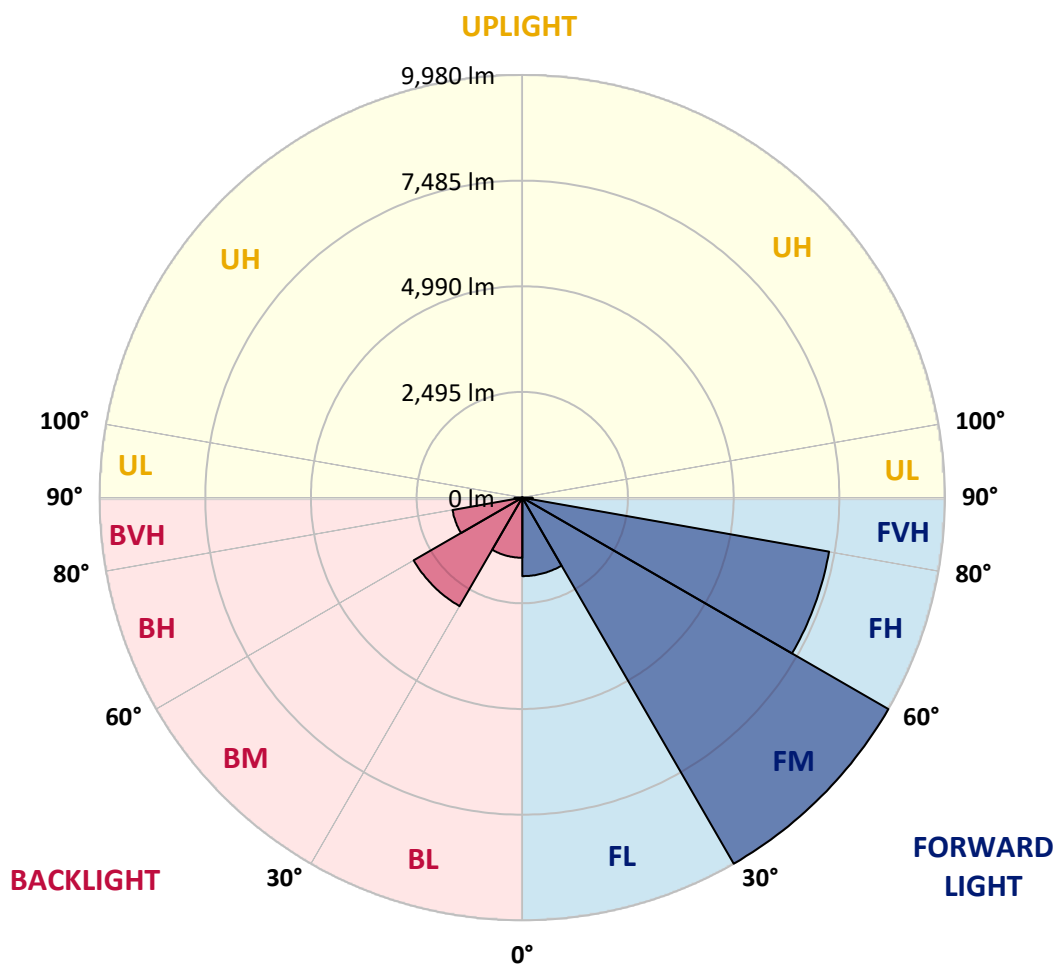
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1853.5	7.2			
FM	(30°-60°)	9979.6	38.9			
FH	(60°-80°)	7354.1	28.7			G3/7500
FVH	(80°-90°)	244.0	1.0			G3/500
BL	(0°-30°)	1420.0	5.5	B3/2500		
BM	(30°-60°)	2959.9	11.5	B3/5000		
BH	(60°-80°)	1672.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	182.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6
2.5°	3482.2	3480.8	3485.1	3480.8	3483.7	3473.6	3469.4	3472.2	3467.9	3460.8	3447.9
5°	3525.2	3523.7	3525.2	3519.4	3522.3	3516.6	3506.6	3509.4	3502.3	3486.5	3467.9
7.5°	3598.1	3592.4	3592.4	3591.0	3585.2	3576.7	3569.5	3566.6	3559.5	3539.5	3510.8
10°	3692.5	3692.5	3694.0	3682.5	3689.7	3673.9	3666.8	3665.4	3641.0	3615.3	3575.2
12.5°	3817.0	3824.2	3819.9	3814.1	3811.3	3805.6	3781.2	3787.0	3759.8	3715.4	3666.8
15°	3971.5	3983.0	3975.8	3972.9	3965.8	3944.3	3934.3	3930.0	3894.3	3829.9	3765.5
17.5°	4176.1	4161.8	4156.1	4148.9	4118.9	4103.1	4086.0	4083.1	4051.6	3975.8	3875.7
20°	4354.9	4375.0	4363.5	4356.4	4326.3	4296.3	4283.4	4279.1	4251.9	4168.9	4008.7
22.5°	4568.1	4572.4	4576.7	4559.5	4545.2	4522.3	4499.4	4492.3	4482.3	4396.4	4200.4
25°	4795.6	4812.7	4798.4	4781.3	4764.1	4762.7	4784.1	4781.3	4777.0	4694.0	4455.1
27.5°	5166.1	5181.9	5186.1	5167.5	5101.7	5107.5	5156.1	5171.8	5237.7	5100.3	4782.7
30°	5375.0	5390.7	5426.5	5496.6	5601.0	5692.6	5809.9	5845.7	5908.6	5649.7	5171.8
32.5°	5503.8	5509.5	5573.9	5704.0	6017.4	6359.3	6678.3	6691.2	6731.3	6367.9	5528.1
35°	5706.9	5711.2	5762.7	5905.8	6273.5	6842.9	7336.4	7352.2	7319.3	6591.1	5694.0
37.5°	5957.3	5968.7	6001.6	6120.4	6559.6	7247.7	7609.7	7598.2	7306.4	6768.5	5987.3
40°	6322.1	6322.1	6283.5	6443.7	6861.5	7479.5	7705.5	7685.5	7608.3	7282.1	6433.7
42.5°	6644.0	6638.3	6729.8	6838.6	7239.1	7837.2	8107.6	8140.5	8267.8	7927.3	6941.6
45°	7063.2	7088.9	7140.4	7337.9	7881.5	8448.1	8797.1	8828.6	9008.9	8687.0	7535.3
47.5°	7486.7	7495.2	7656.9	7920.1	8677.0	9276.4	9562.5	9614.0	9778.6	9575.4	8174.8
50°	7787.1	7868.6	8127.6	8542.5	9496.7	10286.5	10509.6	10571.2	10861.6	10542.5	8920.2
52.5°	8104.7	8184.8	8501.0	9133.3	10438.1	11319.4	11594.1	11635.6	11937.4	11521.1	9682.7
55°	8376.5	8450.9	8810.0	9657.0	11187.8	12373.8	12871.7	12823.0	12967.5	12275.1	10270.7
57.5°	8420.9	8481.0	8933.1	9991.7	11751.5	13278.0	13991.9	14020.5	13853.1	12838.8	10755.7
60°	8077.5	8200.6	8719.9	9956.0	12004.7	13907.5	14827.4	14847.4	14372.4	13127.8	10948.9
62.5°	7469.5	7456.6	8084.7	9380.8	11649.9	14050.5	15319.5	15298.1	14575.6	12989.0	10761.4
64°	6629.7	6784.2	7370.8	8674.1	11077.6	13830.2	15371.0	15359.6	14478.3	12700.0	10442.4
65°	6117.5	6108.9	6688.3	8096.1	10508.2	13498.3	15279.5	15263.7	14275.1	12441.0	10194.9
67.5°	4416.5	4436.5	5008.7	6247.7	8542.5	12200.7	14682.9	14624.2	13474.0	11582.6	9253.5
70°	2675.3	2686.8	3136.0	4144.6	6131.8	9863.0	13235.1	13237.9	12247.9	10300.8	7875.8
72.5°	1409.2	1439.2	1619.5	2353.4	3724.0	6920.1	10737.1	10991.8	10515.4	8791.4	6221.9
75°	784.0	788.3	915.6	1160.3	1899.9	3872.8	8070.4	8143.3	8325.0	7076.1	4601.0
77.5°	598.0	606.6	646.7	749.7	1034.4	1795.5	4884.3	5250.5	5867.1	4988.7	2625.3
80°	485.0	493.6	527.9	589.4	688.1	851.2	2269.0	2466.5	3140.3	2214.7	1024.4
82.5°	377.7	372.0	416.3	456.4	500.7	503.6	931.4	1030.1	1279.0	952.8	443.5
85°	280.4	280.4	316.2	307.6	323.3	294.7	410.6	453.5	512.2	404.9	206.0
87.5°	111.6	123.0	207.4	186.0	144.5	115.9	151.7	160.2	177.4	158.8	85.8
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°	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6	3443.6
2.5°	3449.3	3453.6	3443.6	3436.4	3433.6	3429.3	3425.0	3426.4	3432.2	3437.9	3436.4
5°	3466.5	3467.9	3450.8	3442.2	3436.4	3430.7	3430.7	3435.0	3446.5	3455.0	3455.0
7.5°	3509.4	3509.4	3485.1	3469.4	3460.8	3450.8	3447.9	3449.3	3457.9	3469.4	3470.8
10°	3576.7	3570.9	3539.5	3515.1	3499.4	3475.1	3453.6	3442.2	3446.5	3453.6	3453.6
12.5°	3658.2	3642.5	3602.4	3569.5	3530.9	3485.1	3440.7	3417.9	3416.4	3423.6	3420.7
15°	3745.5	3728.3	3672.5	3612.4	3545.2	3477.9	3425.0	3392.1	3366.3	3359.2	3374.9
17.5°	3847.0	3811.3	3734.0	3651.0	3550.9	3463.6	3380.7	3313.4	3267.6	3254.8	3259.0
20°	3970.1	3922.9	3818.4	3688.2	3546.6	3412.1	3283.4	3193.2	3118.8	3096.0	3098.8
22.5°	4140.3	4058.8	3905.7	3706.8	3510.8	3314.8	3136.0	3018.7	2928.6	2892.8	2914.3
25°	4333.5	4244.8	3988.7	3702.6	3417.9	3158.9	2961.5	2808.4	2726.8	2673.9	2685.4
27.5°	4599.6	4442.2	4077.4	3663.9	3284.8	2968.6	2739.7	2595.2	2520.8	2493.6	2506.5
30°	4940.1	4698.3	4173.2	3559.5	3074.5	2728.3	2516.5	2422.1	2377.8	2343.4	2354.9
32.5°	5186.1	4878.6	4194.7	3383.5	2847.0	2509.4	2364.9	2294.8	2246.1	2213.2	2220.4
35°	5362.1	5031.6	4184.7	3167.5	2609.5	2329.1	2244.7	2187.5	2108.8	2037.3	2024.4
37.5°	5598.2	5223.3	4111.7	2931.4	2374.9	2207.5	2147.4	2041.6	1928.5	1832.7	1828.4
40°	5960.1	5448.0	3955.8	2653.9	2174.6	2117.4	2044.4	1907.1	1785.5	1708.2	1702.5
42.5°	6333.5	5655.4	3744.0	2362.0	2010.1	2023.0	1934.3	1798.3	1723.9	1673.9	1668.2
45°	6789.9	5880.0	3515.1	2108.8	1888.5	1934.3	1838.4	1759.7	1715.4	1682.5	1673.9
47.5°	7283.5	6110.4	3257.6	1881.3	1785.5	1852.7	1798.3	1762.6	1738.3	1715.4	1705.3
50°	7815.7	6367.9	3015.8	1698.2	1692.5	1768.3	1794.0	1781.2	1766.9	1759.7	1751.1
52.5°	8399.4	6631.1	2812.7	1569.4	1610.9	1708.2	1795.5	1805.5	1805.5	1801.2	1795.5
55°	8794.3	6814.2	2606.7	1465.0	1527.9	1659.6	1792.6	1831.2	1845.6	1839.8	1834.1
57.5°	9086.1	6914.4	2347.7	1374.9	1457.8	1612.4	1776.9	1834.1	1848.4	1855.6	1852.7
60°	9146.2	6821.4	2008.6	1280.4	1382.0	1543.7	1719.7	1791.2	1809.8	1854.1	1858.4
62.5°	8875.8	6535.3	1671.0	1187.4	1289.0	1439.2	1642.4	1742.5	1779.7	1848.4	1855.6
64°	8543.9	6214.8	1483.6	1128.8	1228.9	1380.6	1603.8	1729.7	1778.3	1869.9	1875.6
65°	8300.7	5981.6	1366.3	1091.6	1190.3	1342.0	1582.3	1734.0	1791.2	1902.8	1911.4
67.5°	7405.1	5179.0	1130.2	1004.3	1098.7	1276.2	1586.6	1769.7	1788.3	1915.7	1914.2
70°	6127.5	4123.2	947.1	924.2	1010.0	1223.2	1569.4	1712.5	1713.9	1798.3	1778.3
72.5°	4588.1	3047.3	821.2	841.2	911.3	1097.3	1482.2	1635.2	1610.9	1622.4	1602.3
75°	3151.7	2015.8	706.7	752.5	808.3	970.0	1359.1	1485.0	1446.4	1432.1	1417.8
77.5°	1682.5	1114.5	588.0	665.3	702.5	838.4	1186.0	1307.6	1267.6	1211.8	1193.2
80°	681.0	525.1	473.5	550.8	572.3	675.3	987.2	1063.0	1032.9	935.7	904.2
82.5°	341.9	314.7	372.0	433.5	434.9	482.1	733.9	805.5	738.2	619.5	592.3
85°	178.8	184.6	256.1	304.7	269.0	260.4	440.6	487.9	447.8	389.1	350.5
87.5°	64.4	74.4	134.5	133.1	94.4	50.1	97.3	47.2	25.8	15.7	20.0
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)