

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: P453692

Luminaire Tested: **GALN-SA4D-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453692
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-SA4D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25380 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

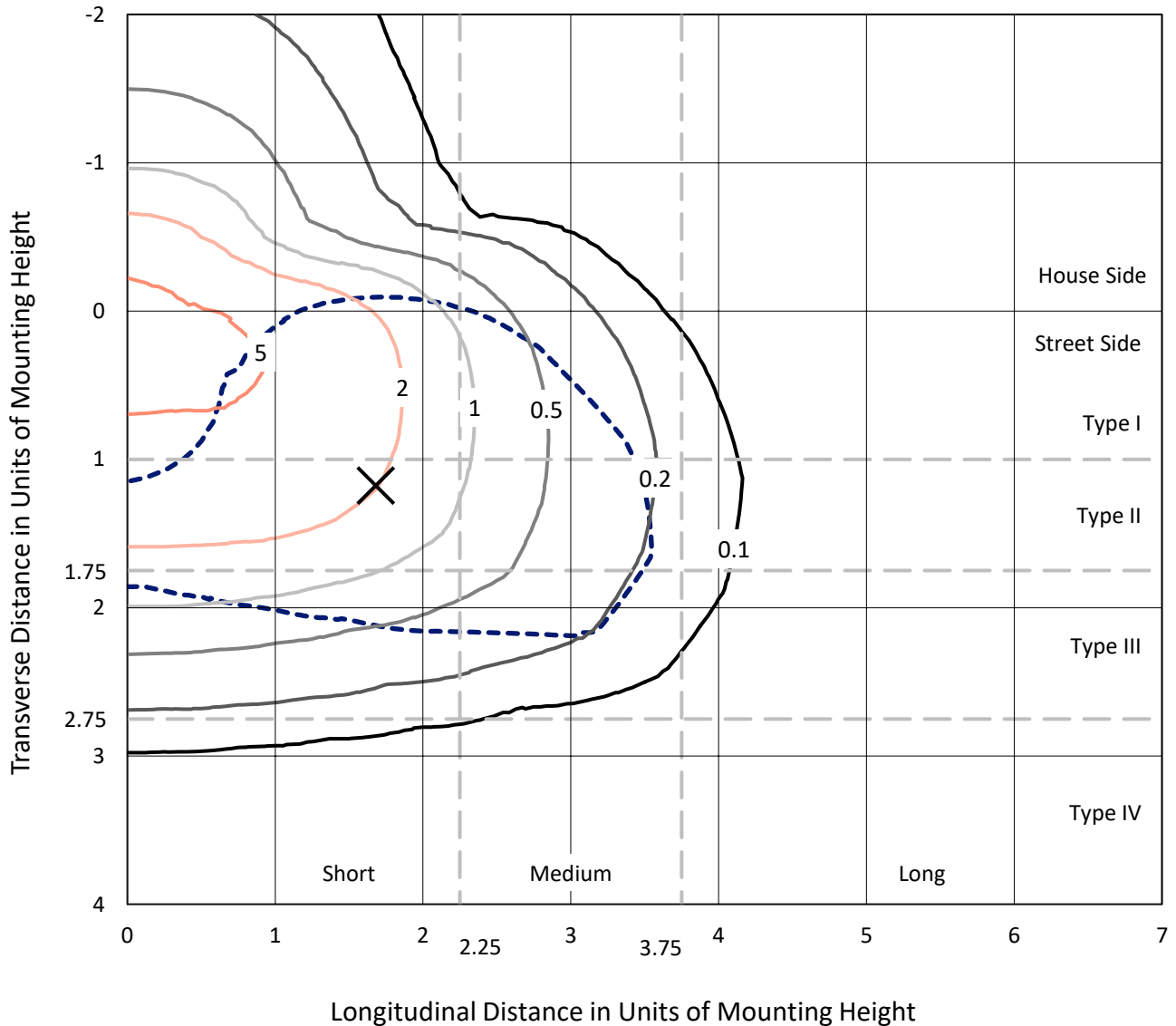
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

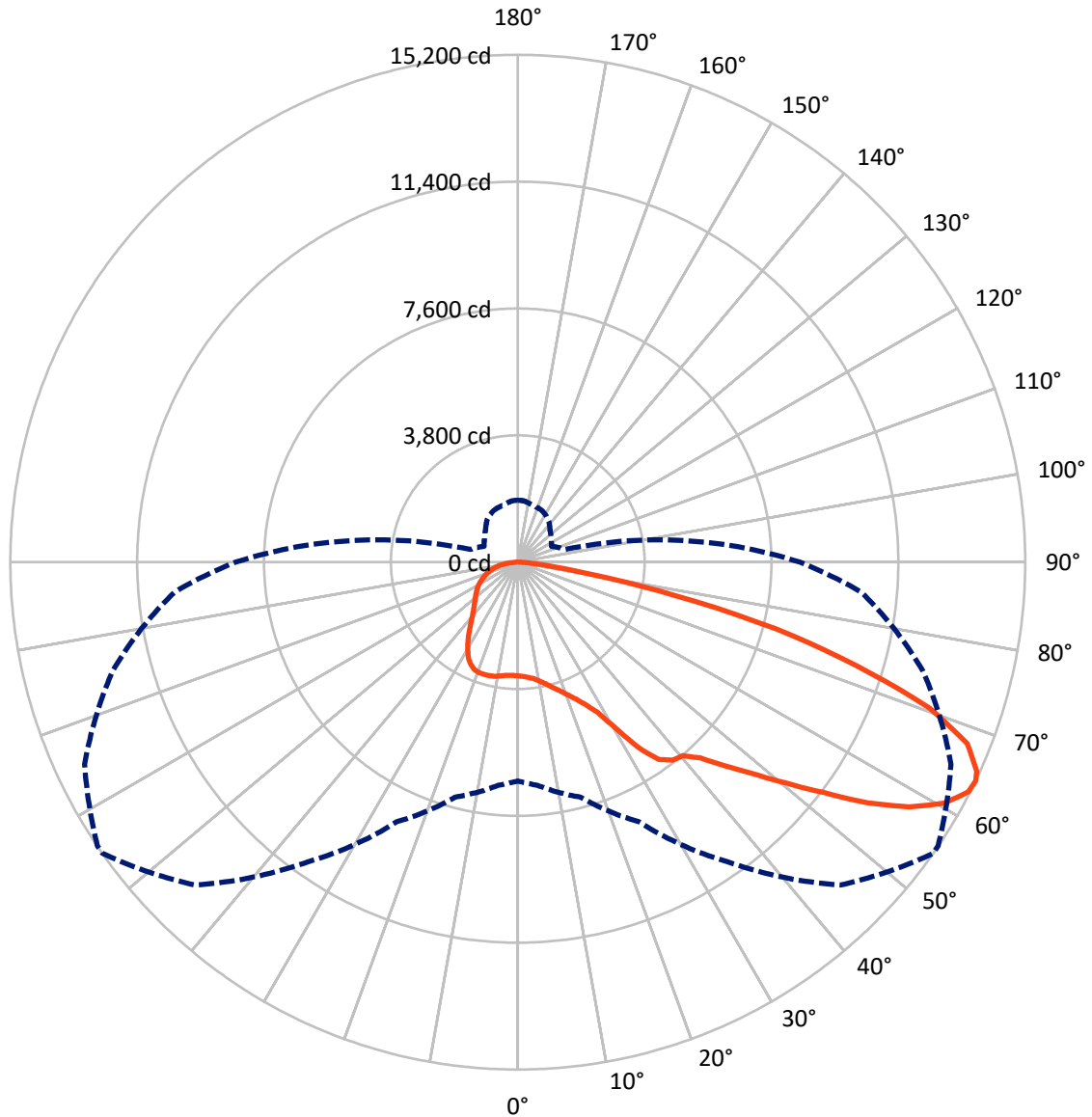
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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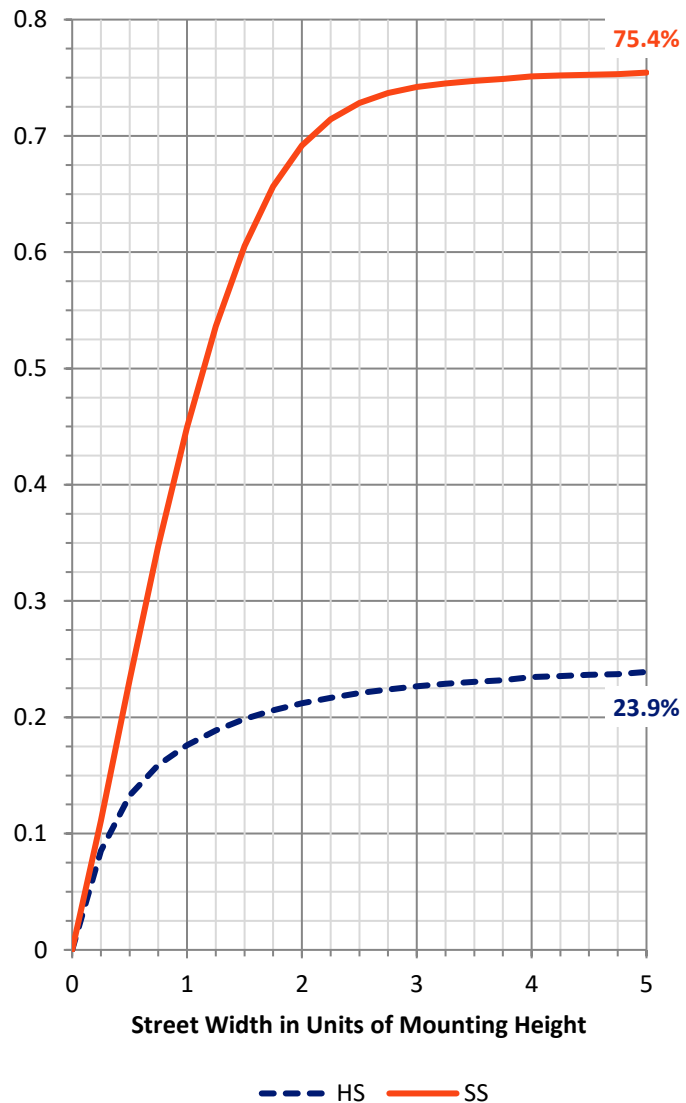
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6165.3	0.0	6165.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	19214.7	0.0	19214.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	25380.0	0.0	25380.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.3
10°-20°	1045.2	4.1
20°-30°	1860.7	7.3
30°-40°	2862.8	11.3
40°-50°	4058.3	16.0
50°-60°	5874.3	23.1
60°-70°	6079.2	24.0
70°-80°	2846.9	11.2
80°-90°	421.5	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°	25380.0	100.0
0°-180°	25380.0	100.0



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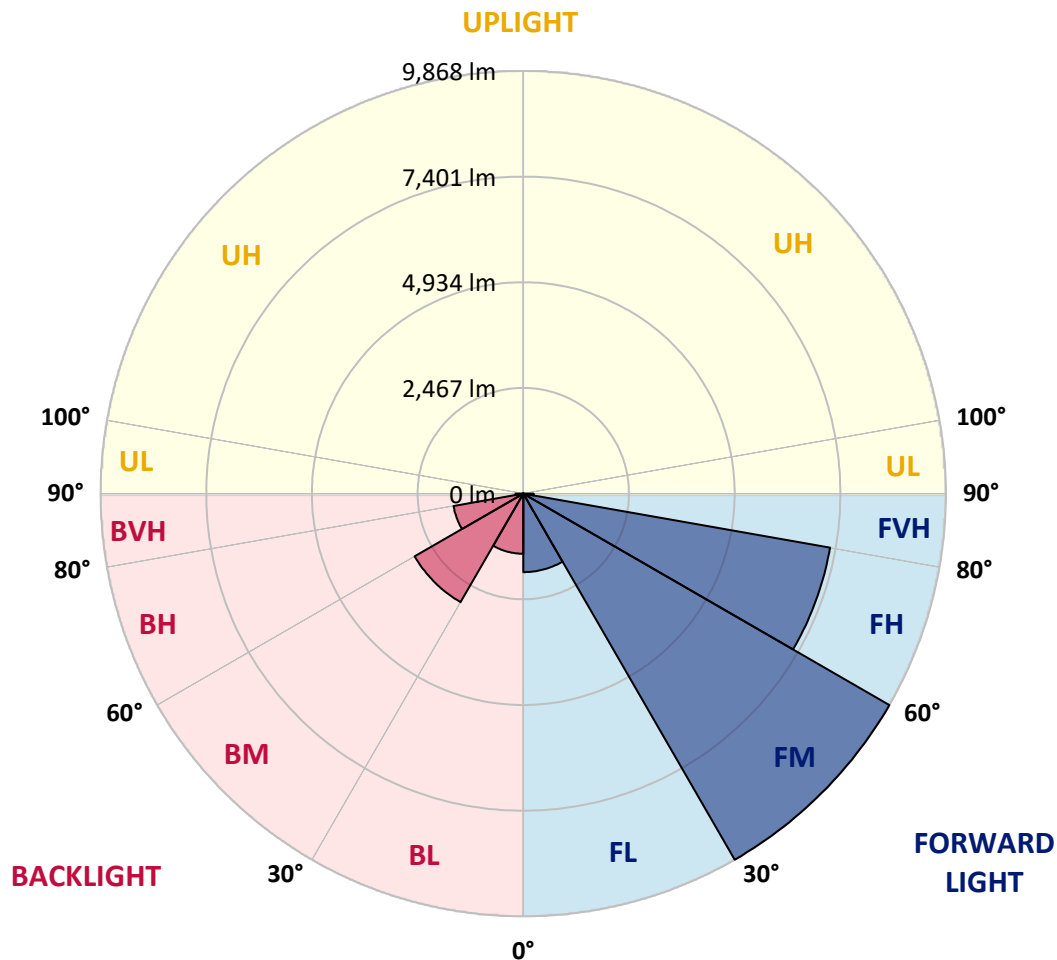
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1832.8	7.2			
FM	(30°-60°)	9868.4	38.9			
FH	(60°-80°)	7272.1	28.7			G3/7500
FVH	(80°-90°)	241.3	1.0			G3/500
BL	(0°-30°)	1404.2	5.5	B3/2500		
BM	(30°-60°)	2926.9	11.5	B3/5000		
BH	(60°-80°)	1654.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	180.1	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°	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2
2.5°	3443.4	3442.0	3446.3	3442.0	3444.8	3434.9	3430.7	3433.5	3429.3	3422.2	3409.5
5°	3485.9	3484.5	3485.9	3480.2	3483.0	3477.4	3467.5	3470.3	3463.2	3447.7	3429.3
7.5°	3558.0	3552.4	3552.4	3550.9	3545.3	3536.8	3529.7	3526.9	3519.8	3500.0	3471.7
10°	3651.4	3651.4	3652.8	3641.5	3648.6	3633.0	3625.9	3624.5	3600.5	3575.0	3535.4
12.5°	3774.5	3781.5	3777.3	3771.6	3768.8	3763.2	3739.1	3744.8	3717.9	3674.0	3625.9
15°	3927.3	3938.6	3931.5	3928.7	3921.6	3900.4	3890.5	3886.2	3850.9	3787.2	3723.5
17.5°	4129.6	4115.4	4109.8	4102.7	4073.0	4057.4	4040.4	4037.6	4006.5	3931.5	3832.5
20°	4306.4	4326.2	4314.9	4307.8	4278.1	4248.4	4235.7	4231.4	4204.5	4122.5	3964.0
22.5°	4517.2	4521.4	4525.7	4508.7	4494.6	4471.9	4449.3	4442.2	4432.3	4347.4	4153.6
25°	4742.1	4759.1	4745.0	4728.0	4711.0	4709.6	4730.8	4728.0	4723.7	4641.7	4405.4
27.5°	5108.6	5124.1	5128.4	5110.0	5044.9	5050.5	5098.6	5114.2	5179.3	5043.5	4729.4
30°	5315.1	5330.7	5366.0	5435.4	5538.6	5629.2	5745.2	5780.5	5842.8	5586.7	5114.2
32.5°	5442.4	5448.1	5511.7	5640.5	5950.3	6288.4	6603.9	6616.6	6656.3	6296.9	5466.5
35°	5643.3	5647.6	5698.5	5840.0	6203.5	6766.6	7254.7	7270.2	7237.7	6517.6	5630.6
37.5°	5890.9	5902.2	5934.7	6052.2	6486.5	7167.0	7524.9	7513.6	7225.0	6693.0	5920.6
40°	6251.6	6251.6	6213.4	6371.9	6785.0	7396.2	7619.7	7599.9	7523.5	7200.9	6362.0
42.5°	6570.0	6564.3	6654.8	6762.4	7158.5	7749.8	8017.2	8049.8	8175.7	7839.0	6864.2
45°	6984.5	7009.9	7060.9	7256.1	7793.7	8353.9	8699.1	8730.2	8908.5	8590.2	7451.3
47.5°	7403.2	7411.7	7571.6	7831.9	8580.3	9173.0	9456.0	9506.9	9669.6	9468.7	8083.7
50°	7700.3	7781.0	8037.0	8447.3	9390.9	10171.8	10392.5	10453.4	10740.6	10425.1	8820.8
52.5°	8014.4	8093.6	8406.3	9031.6	10321.8	11193.3	11464.9	11505.9	11804.4	11392.7	9574.8
55°	8283.2	8356.7	8711.8	9549.4	11063.1	12235.9	12728.2	12680.1	12823.0	12138.3	10156.3
57.5°	8327.0	8386.5	8833.5	9880.4	11620.5	13130.0	13836.0	13864.3	13698.7	12695.7	10635.9
60°	7987.5	8109.2	8622.7	9845.0	11870.9	13752.5	14662.2	14682.0	14212.3	12981.5	10826.8
62.5°	7386.3	7373.5	7994.6	9276.3	11520.1	13894.0	15148.8	15127.6	14413.2	12844.2	10641.5
64°	6555.8	6708.6	7288.6	8577.4	10954.2	13676.1	15199.7	15188.4	14317.0	12558.5	10326.0
65°	6049.3	6040.9	6613.8	8005.9	10391.1	13347.9	15109.2	15093.6	14116.1	12302.4	10081.3
67.5°	4367.2	4387.0	4952.9	6178.1	8447.3	12064.7	14519.3	14461.3	13323.8	11453.6	9150.4
70°	2645.5	2656.8	3101.1	4098.4	6063.5	9753.1	13087.6	13090.4	12111.4	10186.0	7788.0
72.5°	1393.5	1423.2	1601.5	2327.2	3682.5	6843.0	10617.5	10869.3	10398.2	8693.5	6152.6
75°	775.3	779.5	905.4	1147.3	1878.7	3829.6	7980.4	8052.6	8232.3	6997.2	4549.7
77.5°	591.4	599.8	639.5	741.3	1022.8	1775.5	4829.9	5192.0	5801.8	4933.1	2596.0
80°	479.6	488.1	522.0	582.9	680.5	841.8	2243.7	2439.0	3105.3	2190.0	1012.9
82.5°	373.5	367.8	411.7	451.3	495.2	498.0	921.0	1018.6	1264.8	942.2	438.6
85°	277.3	277.3	312.7	304.2	319.7	291.4	406.0	448.5	506.5	400.4	203.7
87.5°	110.3	121.7	205.1	183.9	142.9	114.6	150.0	158.4	175.4	157.0	84.9
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°	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2
2.5°	3410.9	3415.1	3405.2	3398.2	3395.3	3391.1	3386.8	3388.3	3393.9	3399.6	3398.2
5°	3427.9	3429.3	3412.3	3403.8	3398.2	3392.5	3392.5	3396.7	3408.1	3416.5	3416.5
7.5°	3470.3	3470.3	3446.3	3430.7	3422.2	3412.3	3409.5	3410.9	3419.4	3430.7	3432.1
10°	3536.8	3531.1	3500.0	3476.0	3460.4	3436.4	3415.1	3403.8	3408.1	3415.1	3415.1
12.5°	3617.4	3601.9	3562.3	3529.7	3491.5	3446.3	3402.4	3379.8	3378.4	3385.4	3382.6
15°	3703.7	3686.8	3631.6	3572.2	3505.7	3439.2	3386.8	3354.3	3328.8	3321.8	3337.3
17.5°	3804.2	3768.8	3692.4	3610.4	3511.3	3425.0	3343.0	3276.5	3231.2	3218.5	3222.7
20°	3925.8	3879.2	3775.9	3647.1	3507.1	3374.1	3246.8	3157.7	3084.1	3061.5	3064.3
22.5°	4094.2	4013.6	3862.2	3665.5	3471.7	3277.9	3101.1	2985.1	2895.9	2860.6	2881.8
25°	4285.2	4197.5	3944.2	3661.3	3379.8	3123.7	2928.5	2777.1	2696.5	2644.1	2655.4
27.5°	4548.3	4392.7	4032.0	3623.1	3248.2	2935.5	2709.2	2566.3	2492.7	2465.9	2478.6
30°	4885.0	4645.9	4126.7	3519.8	3040.2	2697.9	2488.5	2395.1	2351.3	2317.3	2328.6
32.5°	5128.4	4824.2	4148.0	3345.8	2815.3	2481.4	2338.5	2269.2	2221.1	2188.6	2195.6
35°	5302.4	4975.6	4138.1	3132.2	2580.4	2303.2	2219.7	2163.1	2085.3	2014.6	2001.8
37.5°	5535.8	5165.1	4065.9	2898.8	2348.4	2182.9	2123.5	2018.8	1907.0	1812.3	1808.0
40°	5893.7	5387.3	3911.7	2624.3	2150.4	2093.8	2021.6	1885.8	1765.6	1689.2	1683.5
42.5°	6263.0	5592.4	3702.3	2335.7	1987.7	2000.4	1912.7	1778.3	1704.7	1655.2	1649.6
45°	6714.3	5814.5	3476.0	2085.3	1867.4	1912.7	1817.9	1740.1	1696.2	1663.7	1655.2
47.5°	7202.3	6042.3	3221.3	1860.4	1765.6	1832.1	1778.3	1742.9	1718.9	1696.2	1686.3
50°	7728.6	6296.9	2982.2	1679.3	1673.6	1748.6	1774.1	1761.3	1747.2	1740.1	1731.6
52.5°	8305.8	6557.2	2781.3	1551.9	1593.0	1689.2	1775.5	1785.4	1785.4	1781.1	1775.5
55°	8696.3	6738.3	2577.6	1448.7	1510.9	1641.1	1772.6	1810.8	1825.0	1819.3	1813.7
57.5°	8984.9	6837.3	2321.6	1359.5	1441.6	1594.4	1757.1	1813.7	1827.8	1834.9	1832.1
60°	9044.3	6745.4	1986.3	1266.2	1366.6	1526.5	1700.5	1771.2	1789.6	1833.5	1837.7
62.5°	8776.9	6462.4	1652.4	1174.2	1274.7	1423.2	1624.1	1723.1	1759.9	1827.8	1834.9
64°	8448.7	6145.5	1467.1	1116.2	1215.2	1365.2	1585.9	1710.4	1758.5	1849.0	1854.7
65°	8208.2	5914.9	1351.1	1079.4	1177.0	1327.0	1564.7	1714.6	1771.2	1881.6	1890.1
67.5°	7322.6	5121.3	1117.6	993.1	1086.5	1261.9	1568.9	1750.0	1768.4	1894.3	1892.9
70°	6059.2	4077.2	936.5	913.9	998.8	1209.6	1551.9	1693.4	1694.8	1778.3	1758.5
72.5°	4537.0	3013.4	812.0	831.9	901.2	1085.1	1465.6	1617.0	1593.0	1604.3	1584.5
75°	3116.6	1993.3	698.9	744.1	799.3	959.2	1344.0	1468.5	1430.3	1416.1	1402.0
77.5°	1663.7	1102.1	581.4	657.8	694.6	829.0	1172.8	1293.1	1253.4	1198.3	1179.9
80°	673.4	519.2	468.3	544.7	565.9	667.7	976.2	1051.1	1021.4	925.2	894.1
82.5°	338.1	311.2	367.8	428.7	430.1	476.8	725.8	796.5	730.0	612.6	585.7
85°	176.8	182.5	253.2	301.3	266.0	257.5	435.7	482.4	442.8	384.8	346.6
87.5°	63.7	73.6	133.0	131.6	93.4	49.5	96.2	46.7	25.5	15.6	19.8
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)