

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: P455109

Luminaire Tested: **GALN-SA6B-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30905 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

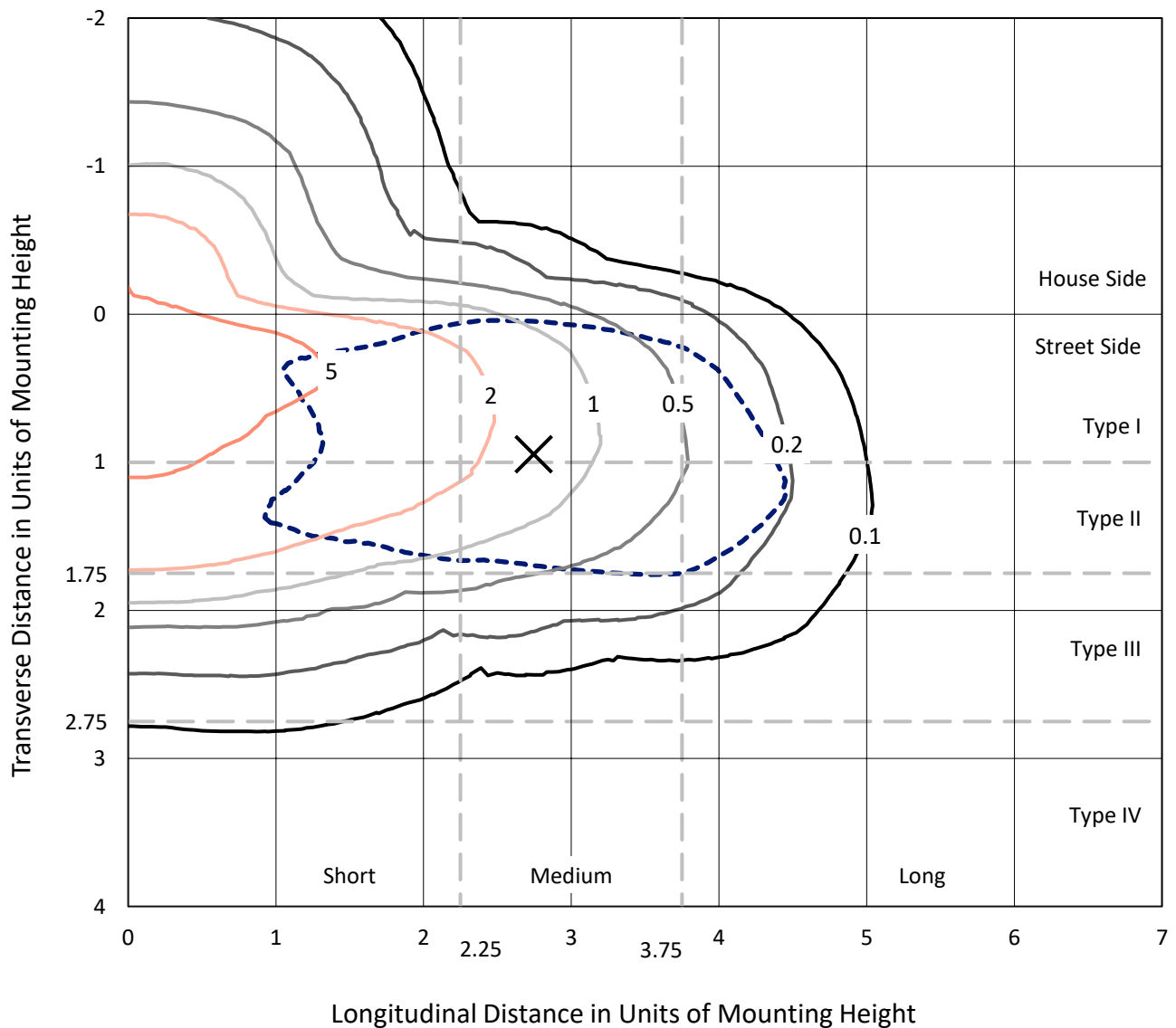
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

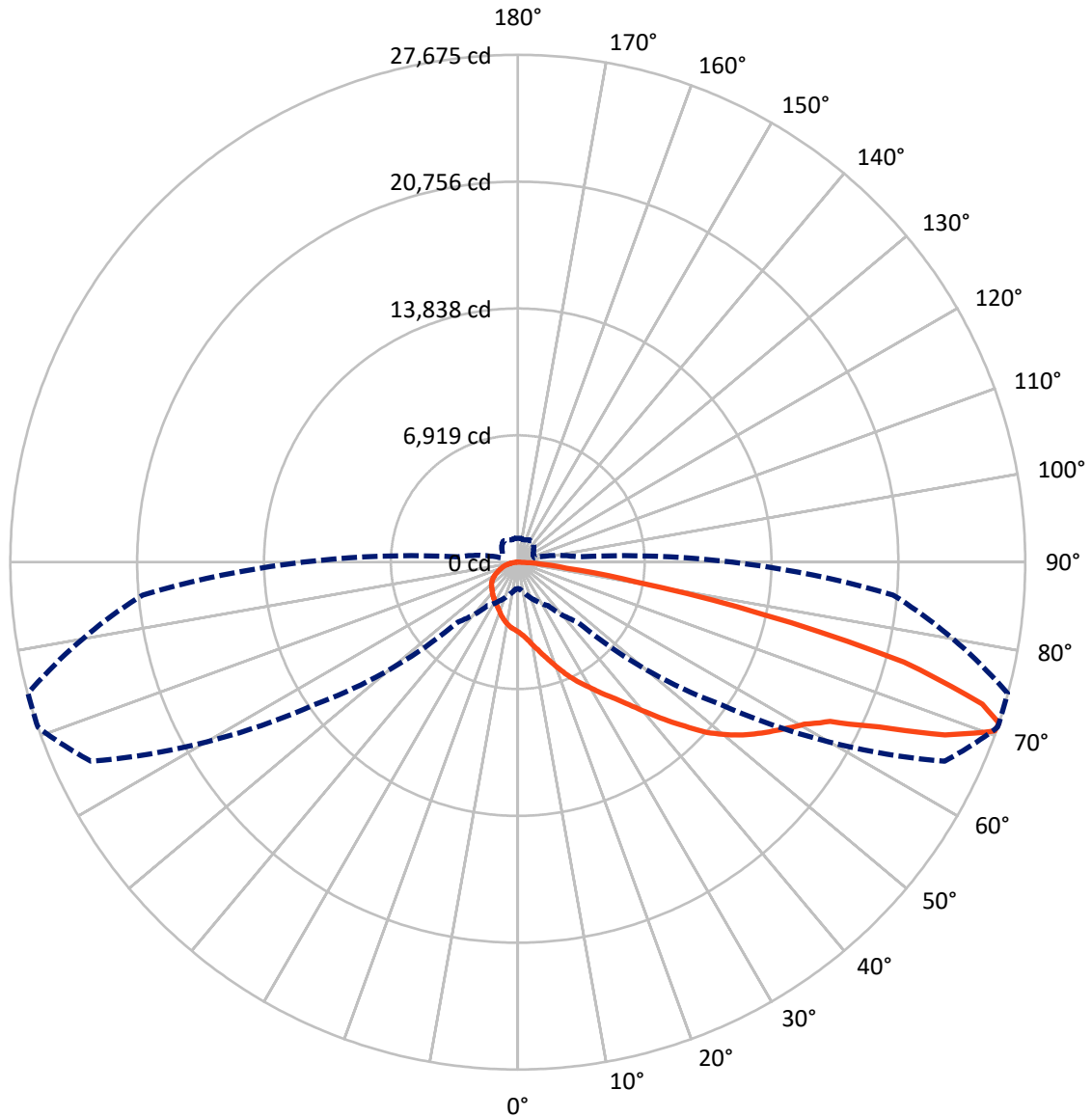
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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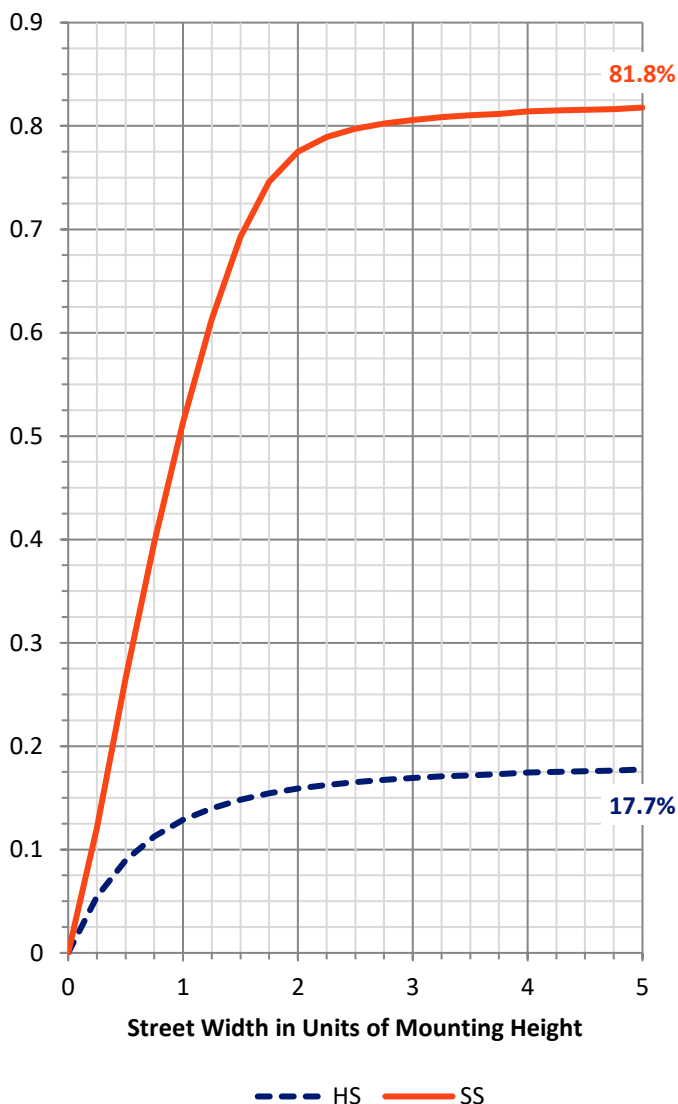
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5558.2	0.0	5558.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	25346.8	0.0	25346.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	30905.0	0.0	30905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	1.2
10°-20°	1237.3	4.0
20°-30°	2162.3	7.0
30°-40°	3216.2	10.4
40°-50°	4738.6	15.3
50°-60°	6634.1	21.5
60°-70°	7420.1	24.0
70°-80°	4532.5	14.7
80°-90°	583.1	1.9
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°	30905.0	100.0
0°-180°	30905.0	100.0

Coefficient of Utilization



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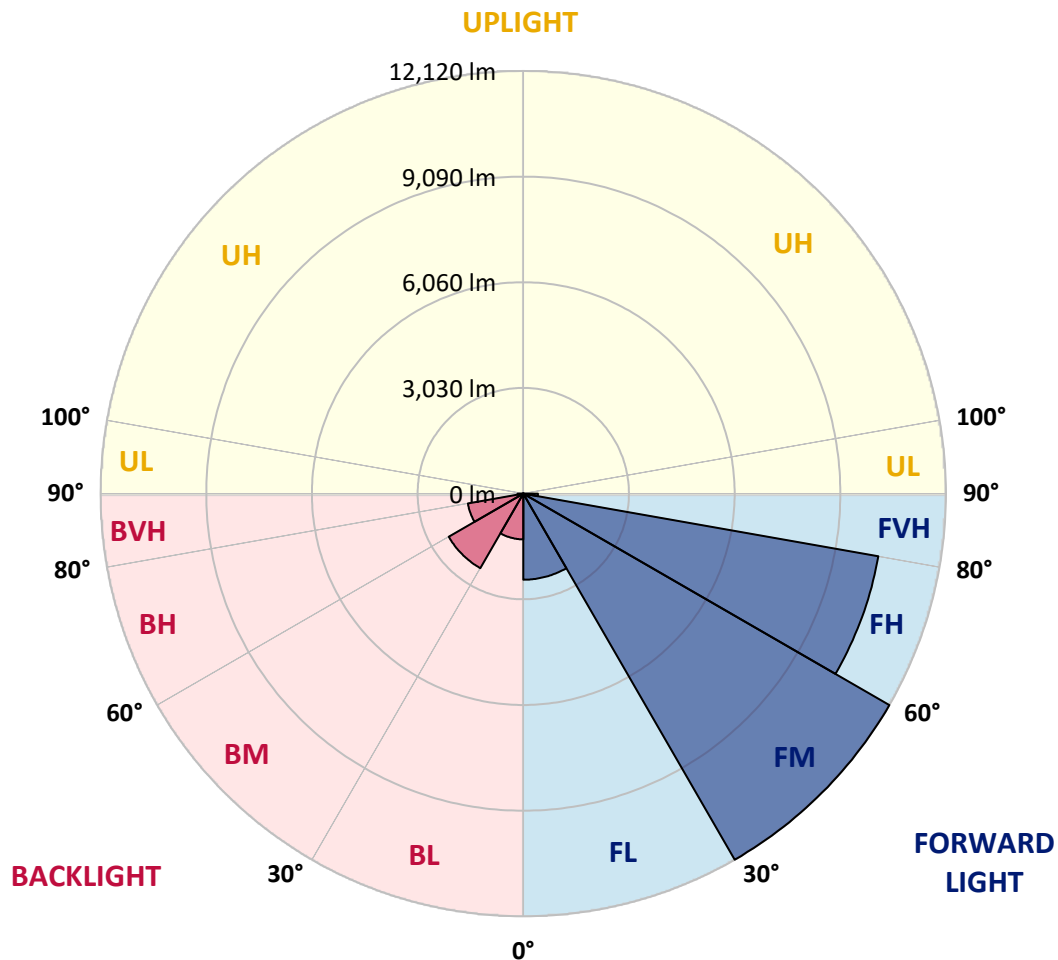
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2469.3	8.0			
FM (30°-60°)	12120.3	39.2			
FH (60°-80°)	10337.6	33.4			G4/12000
FVH (80°-90°)	419.5	1.4			G3/500
BL (0°-30°)	1311.2	4.2	B3/2500		
BM (30°-60°)	2468.6	8.0	B2/2500		
BH (60°-80°)	1614.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	163.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0
2.5°	4210.8	4190.5	4192.2	4163.3	4125.9	4085.1	4027.4	3976.4	3935.7	3911.9	3842.2
5°	4666.1	4645.7	4620.2	4557.4	4530.2	4430.0	4302.6	4187.1	4098.7	4049.5	3910.2
7.5°	5034.7	5029.6	5022.8	4987.1	4917.5	4778.2	4669.5	4469.0	4338.2	4244.8	4007.0
10°	5262.3	5270.8	5275.9	5282.7	5253.8	5180.7	5031.3	4778.2	4611.7	4492.8	4132.7
12.5°	5377.8	5386.3	5415.1	5478.0	5517.1	5508.6	5386.3	5138.3	4909.0	4752.7	4266.9
15°	5449.1	5462.7	5513.7	5596.9	5727.7	5810.9	5751.5	5522.2	5270.8	5085.6	4426.6
17.5°	5527.3	5542.5	5598.6	5717.5	5889.1	6069.1	6133.7	5936.6	5663.1	5442.3	4604.9
20°	5571.4	5591.8	5671.6	5827.9	6028.3	6289.9	6503.9	6400.3	6101.4	5856.8	4810.4
22.5°	5642.8	5659.7	5727.7	5894.2	6133.7	6461.5	6874.2	6852.2	6588.9	6272.9	5036.4
25°	5836.4	5863.6	5897.5	5997.8	6228.8	6636.4	7181.7	7334.6	7061.1	6707.8	5243.6
27.5°	6201.6	6223.7	6222.0	6235.6	6366.4	6787.6	7448.4	7811.9	7529.9	7147.7	5444.0
30°	6617.8	6626.2	6633.0	6602.5	6631.3	6942.2	7693.0	8284.1	8002.1	7599.5	5619.0
32.5°	7123.9	7140.9	7083.2	7005.0	6981.3	7171.5	7895.1	8756.3	8561.0	8058.2	5792.2
35°	7721.8	7766.0	7648.8	7511.2	7414.4	7501.0	8166.9	9238.7	9133.4	8644.2	6021.5
37.5°	8404.7	8459.0	8350.3	8080.3	7942.7	7966.4	8521.9	9834.9	9857.0	9311.7	6363.0
40°	8963.5	9034.9	9038.3	8656.1	8447.1	8474.3	8972.0	10477.0	10730.1	10137.3	6765.5
42.5°	9332.1	9401.8	9474.8	9250.6	9031.5	9186.0	9496.9	11173.4	11711.9	11139.4	7327.8
45°	9736.4	9799.2	9840.0	9738.1	9615.8	10016.7	10130.5	11914.0	12758.2	12258.8	7942.7
47.5°	10205.2	10274.8	10313.9	10217.1	10171.2	10745.4	10813.3	12605.3	13875.9	13345.9	8622.1
50°	10830.3	10882.9	10862.6	10801.4	10791.2	11304.2	11469.0	13252.5	14798.2	14516.3	9327.0
52.5°	11608.2	11671.1	11693.2	11606.6	11567.5	11703.4	11997.2	13841.9	15637.3	15521.8	10079.5
55°	12078.8	12179.0	12515.3	12651.2	12744.6	12219.7	12566.3	14492.5	16389.8	16581.8	10888.0
57.5°	11475.8	11604.9	12357.3	13036.8	13915.0	13510.7	13373.1	15171.9	17142.3	17609.4	11856.2
60°	10004.8	10033.6	11003.5	12255.4	14022.0	15170.2	15056.4	16252.2	17957.6	18645.6	13131.9
62.5°	6940.5	7001.6	8148.2	10145.8	12700.5	15768.1	17920.3	18117.3	19126.3	20196.4	15002.1
65°	3579.0	3499.1	4543.8	6376.6	9575.0	14348.1	20240.5	21546.8	21660.6	22622.0	17634.9
67.5°	2203.1	2238.8	2728.0	3723.3	5661.4	10427.7	19997.6	25737.2	25137.6	25599.6	20079.2
70°	1654.4	1698.6	2034.9	2547.9	3451.6	5962.1	16082.4	26753.0	27590.4	27471.5	20823.2
71°	1438.7	1484.6	1834.5	2318.6	2899.5	4601.5	13549.8	25689.7	27675.3	27654.9	20542.9
72.5°	1226.4	1255.3	1528.7	1963.6	2444.3	3225.6	10179.7	23039.8	26494.8	27172.5	19542.4
75°	963.1	985.2	1107.5	1498.2	1924.5	1980.6	5462.7	17273.1	21760.8	23051.7	16269.2
77.5°	784.8	800.0	862.9	1112.6	1484.6	1403.0	2865.5	11243.0	13633.0	14932.4	9583.5
80°	623.4	640.4	677.7	754.2	1112.6	1000.5	1367.4	5697.1	6585.5	6571.9	3825.3
82.5°	484.1	489.2	533.4	553.7	761.0	710.0	740.6	2412.0	2671.9	2760.2	1381.0
85°	305.7	321.0	472.2	424.7	455.2	416.2	365.2	958.0	1180.5	1163.5	552.0
87.5°	93.4	98.5	159.7	180.1	202.1	181.8	134.2	282.0	344.8	373.7	137.6
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°	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0	3793.0
2.5°	3815.1	3796.4	3730.1	3675.8	3624.8	3568.8	3521.2	3507.6	3495.7	3490.6	3488.9
5°	3850.7	3794.7	3663.9	3556.9	3471.9	3393.8	3344.5	3322.5	3300.4	3300.4	3307.2
7.5°	3901.7	3799.8	3597.6	3438.0	3331.0	3257.9	3222.2	3218.9	3223.9	3229.0	3230.7
10°	3957.7	3796.4	3500.8	3302.1	3207.0	3173.0	3174.7	3203.6	3230.7	3251.1	3254.5
12.5°	4012.1	3776.0	3387.0	3174.7	3113.5	3120.3	3167.9	3232.4	3285.1	3314.0	3315.7
15°	4073.2	3743.7	3249.4	3054.1	3033.7	3086.4	3174.7	3273.2	3353.0	3400.6	3405.7
17.5°	4124.2	3689.4	3105.0	2936.9	2962.4	3059.2	3181.5	3308.9	3405.7	3465.1	3475.3
20°	4182.0	3619.7	2955.6	2824.8	2897.8	3028.6	3167.9	3305.5	3405.7	3463.5	3477.0
22.5°	4227.8	3521.2	2812.9	2733.1	2840.1	2991.2	3122.0	3232.4	3314.0	3344.5	3364.9
25°	4246.5	3397.2	2678.7	2658.3	2794.2	2930.1	3018.4	3081.3	3106.7	3103.3	3111.8
27.5°	4236.3	3254.5	2563.2	2598.9	2736.4	2835.0	2879.1	2874.0	2828.2	2785.7	2806.1
30°	4193.8	3084.7	2466.4	2537.7	2661.7	2716.1	2709.3	2643.0	2556.4	2476.6	2481.7
32.5°	4117.4	2901.2	2376.3	2468.1	2556.4	2580.2	2534.3	2447.7	2323.7	2220.1	2204.8
35°	4052.9	2726.3	2296.5	2388.2	2451.1	2439.2	2395.0	2282.9	2170.8	2079.1	2063.8
37.5°	4042.7	2576.8	2220.1	2298.2	2333.9	2316.9	2262.5	2167.4	2126.7	2057.0	2048.5
40°	4097.0	2471.5	2141.9	2203.1	2220.1	2206.5	2147.0	2092.7	2130.0	2113.1	2113.1
42.5°	4244.8	2415.4	2072.3	2108.0	2121.6	2131.7	2089.3	2043.4	2089.3	2011.1	1985.7
45°	4479.2	2417.1	2009.4	2014.5	2055.3	2091.0	2062.1	1994.2	1970.4	1814.1	1783.5
47.5°	4824.0	2474.9	1958.5	1926.2	1999.3	2058.7	2017.9	1919.4	1814.1	1710.5	1691.8
50°	5226.6	2578.5	1912.6	1834.5	1924.5	2017.9	1987.4	1871.9	1763.1	1700.3	1688.4
52.5°	5673.3	2709.3	1856.6	1732.6	1832.8	1999.3	1994.2	1865.1	1715.6	1673.1	1662.9
55°	6225.4	2838.4	1786.9	1613.7	1751.3	1984.0	1975.5	1809.0	1705.4	1674.8	1671.4
57.5°	6867.4	3025.2	1686.7	1493.1	1657.8	1921.1	1902.4	1775.0	1671.4	1649.3	1647.6
60°	7901.9	3315.7	1544.0	1382.7	1562.7	1810.7	1834.5	1717.3	1617.1	1612.0	1610.3
62.5°	9262.5	3723.3	1396.3	1268.9	1452.3	1668.0	1736.0	1639.2	1559.3	1584.8	1588.2
65°	11141.1	4066.5	1243.4	1172.0	1330.0	1530.4	1642.5	1566.1	1494.8	1544.0	1544.0
67.5°	12365.8	4073.2	1104.1	1071.8	1206.0	1414.9	1544.0	1479.5	1411.5	1494.8	1498.2
70°	12111.0	3568.8	988.6	966.5	1085.4	1290.9	1435.3	1384.4	1306.2	1381.0	1353.8
71°	11700.0	3288.5	942.7	925.7	1037.8	1231.5	1384.4	1341.9	1263.8	1313.0	1297.7
72.5°	11044.3	2855.4	868.0	871.4	966.5	1156.7	1313.0	1268.9	1190.7	1217.9	1212.8
75°	9335.5	2493.5	742.3	757.6	830.6	1029.4	1170.3	1136.4	1056.5	1056.5	1051.4
77.5°	5836.4	1742.8	616.6	625.1	704.9	881.6	1005.6	976.7	900.3	874.8	868.0
80°	2177.6	900.3	482.4	492.6	541.9	694.7	832.3	805.1	727.0	698.1	670.9
82.5°	823.8	451.8	355.0	346.5	399.2	530.0	652.3	620.0	558.8	489.2	468.8
85°	310.8	224.2	217.4	210.6	234.4	314.2	404.3	397.5	332.9	283.7	278.6
87.5°	81.5	73.0	84.9	62.8	66.2	59.5	61.1	25.5	11.9	5.1	3.4
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)