

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: P453514

Luminaire Tested: **GALN-SA4C-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453514
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-SA4C-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27970 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

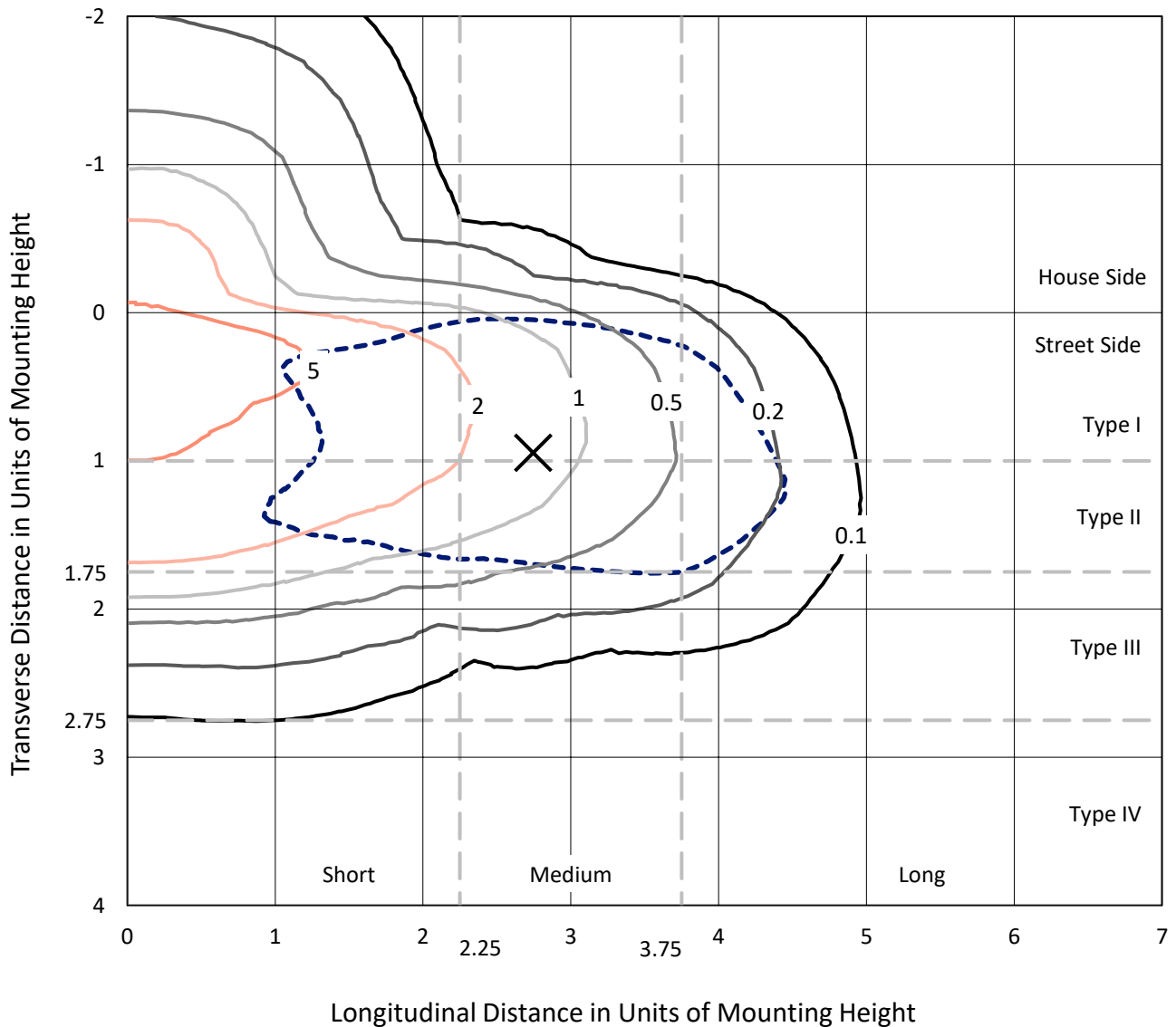
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

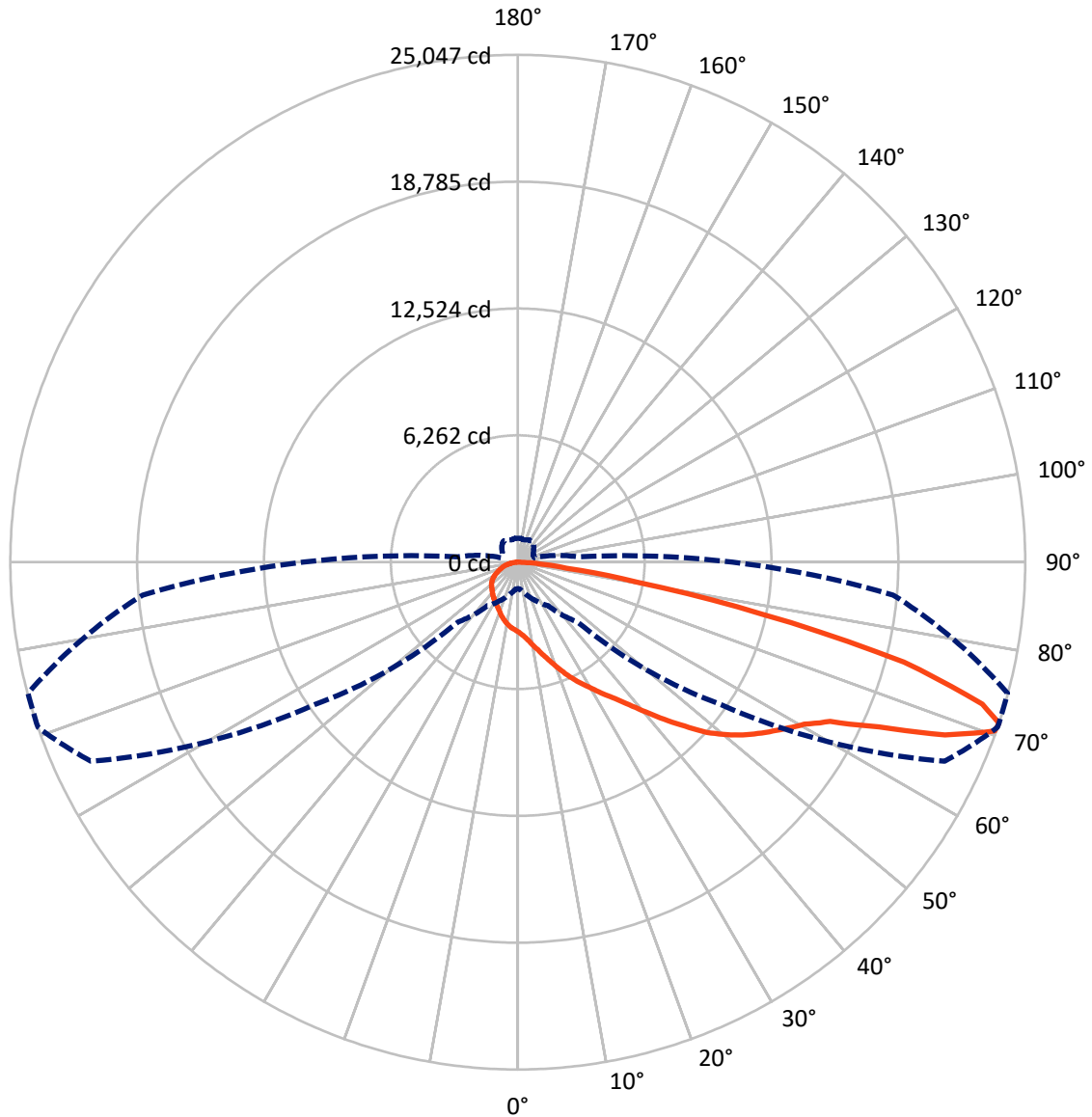
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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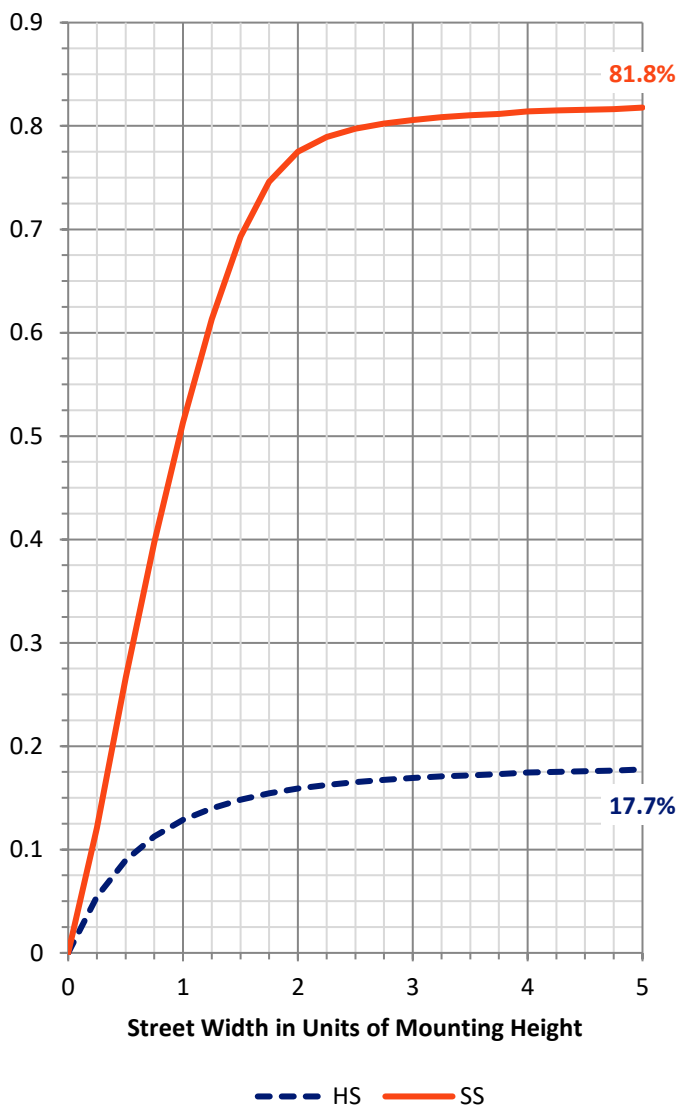
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5030.3	0.0	5030.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	22939.7	0.0	22939.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	27970.0	0.0	27970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.7	1.2
10°-20°	1119.8	4.0
20°-30°	1957.0	7.0
30°-40°	2910.7	10.4
40°-50°	4288.6	15.3
50°-60°	6004.1	21.5
60°-70°	6715.4	24.0
70°-80°	4102.0	14.7
80°-90°	527.7	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°	27970.0	100.0
0°-180°	27970.0	100.0

Coefficient of Utilization



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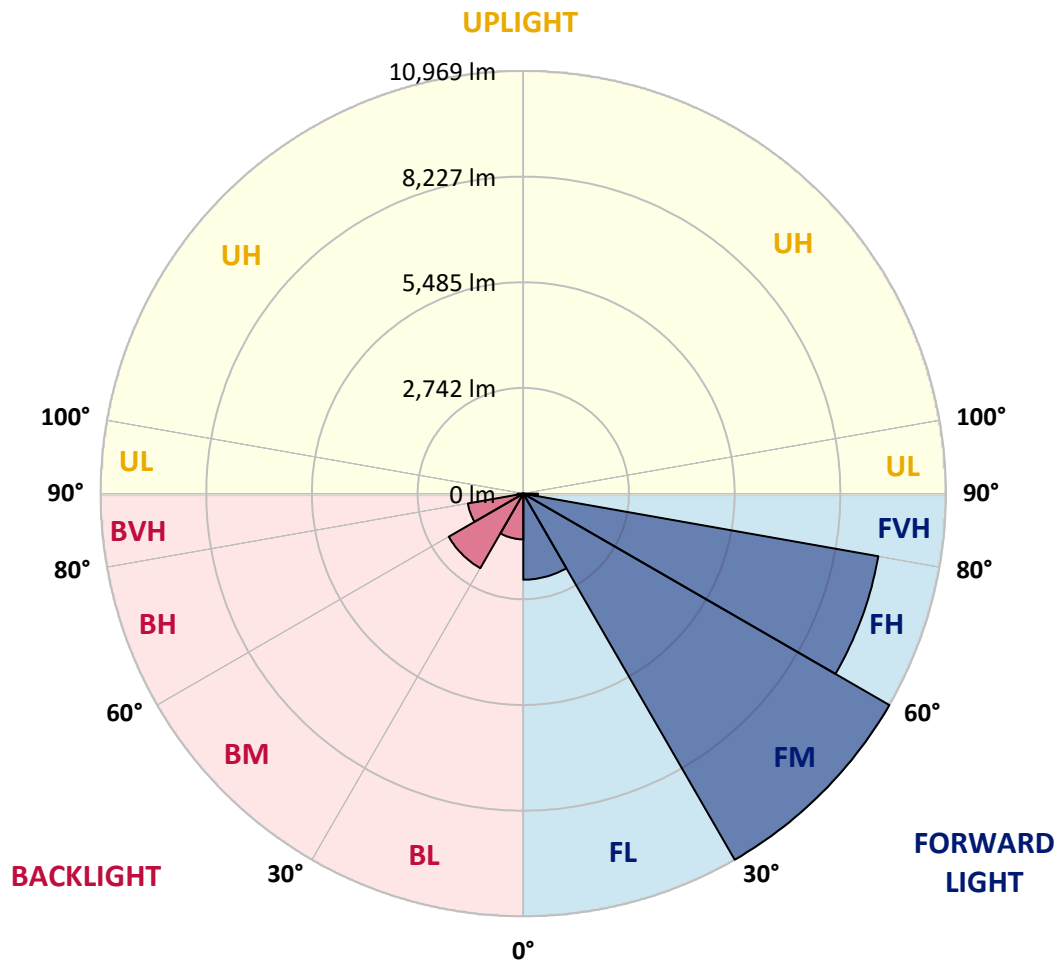
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2234.8	8.0			
FM	(30°-60°)	10969.3	39.2			
FH	(60°-80°)	9355.9	33.4			G4/12000
FVH	(80°-90°)	379.7	1.4			G3/500
BL	(0°-30°)	1186.6	4.2	B3/2500		
BM	(30°-60°)	2234.2	8.0	B2/2500		
BH	(60°-80°)	1461.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	148.0	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°	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8
2.5°	3810.9	3792.5	3794.0	3767.9	3734.1	3697.2	3644.9	3598.8	3561.9	3540.4	3477.3
5°	4222.9	4204.5	4181.4	4124.5	4099.9	4009.2	3894.0	3789.4	3709.5	3664.9	3538.8
7.5°	4556.5	4551.9	4545.8	4513.5	4450.5	4324.4	4226.0	4044.6	3926.2	3841.7	3626.5
10°	4762.5	4770.2	4774.8	4781.0	4754.8	4688.7	4553.4	4324.4	4173.7	4066.1	3740.2
12.5°	4867.1	4874.7	4900.9	4957.8	4993.1	4985.4	4874.7	4650.3	4442.8	4301.3	3861.7
15°	4931.6	4943.9	4990.0	5065.4	5183.7	5259.1	5205.3	4997.7	4770.2	4602.6	4006.2
17.5°	5002.3	5016.2	5066.9	5174.5	5329.8	5492.7	5551.1	5372.8	5125.3	4925.5	4167.6
20°	5042.3	5060.8	5133.0	5274.4	5455.8	5692.6	5886.3	5792.5	5521.9	5300.6	4353.6
22.5°	5106.9	5122.2	5183.7	5334.4	5551.1	5847.8	6221.4	6201.4	5963.1	5677.2	4558.1
25°	5282.1	5306.7	5337.5	5428.2	5637.2	6006.2	6499.7	6638.0	6390.5	6070.8	4745.6
27.5°	5612.6	5632.6	5631.1	5643.4	5761.8	6143.0	6741.0	7070.0	6814.8	6468.9	4927.0
30°	5989.3	5997.0	6003.1	5975.4	6001.6	6282.9	6962.4	7497.4	7242.2	6877.8	5085.4
32.5°	6447.4	6462.8	6410.5	6339.8	6318.3	6490.4	7145.3	7924.7	7747.9	7292.9	5242.2
35°	6988.5	7028.5	6922.4	6797.9	6710.3	6788.7	7391.3	8361.3	8266.0	7823.3	5449.7
37.5°	7606.5	7655.7	7557.3	7312.9	7188.4	7209.9	7712.6	8900.9	8920.9	8427.4	5758.7
40°	8112.3	8176.8	8179.9	7834.0	7644.9	7669.5	8120.0	9482.0	9711.1	9174.5	6123.0
42.5°	8445.9	8508.9	8575.0	8372.1	8173.8	8313.7	8595.0	10112.3	10599.6	10081.5	6631.9
45°	8811.7	8868.6	8905.5	8813.3	8702.6	9065.4	9168.4	10782.5	11546.6	11094.6	7188.4
47.5°	9236.0	9299.1	9334.4	9246.8	9205.3	9724.9	9786.4	11408.2	12558.1	12078.5	7803.3
50°	9801.8	9849.4	9831.0	9775.6	9766.4	10230.7	10379.8	11993.9	13392.9	13137.7	8441.3
52.5°	10505.8	10562.7	10582.7	10504.3	10468.9	10591.9	10857.9	12527.4	14152.3	14047.7	9122.3
55°	10931.7	11022.4	11326.7	11449.7	11534.3	11059.3	11372.9	13116.1	14833.3	15007.0	9854.0
57.5°	10385.9	10502.8	11183.8	11798.7	12593.5	12227.6	12103.1	13731.1	15514.3	15937.1	10730.3
60°	9054.6	9080.8	9958.6	11091.5	12690.3	13729.5	13626.5	14708.8	16252.2	16874.8	11884.8
62.5°	6281.4	6336.7	7374.4	9182.2	11494.3	14270.7	16218.4	16396.7	17309.9	18278.4	13577.3
65°	3239.1	3166.8	4112.2	5771.0	8665.7	12985.5	18318.3	19500.5	19603.5	20473.6	15960.1
67.5°	1993.9	2026.1	2468.9	3369.7	5123.8	9437.4	18098.5	23293.0	22750.3	23168.5	18172.3
70°	1497.3	1537.3	1841.7	2305.9	3123.8	5395.9	14555.0	24212.3	24970.2	24862.6	18845.6
71°	1302.1	1343.6	1660.3	2098.4	2624.2	4164.5	12263.0	23250.0	25047.0	25028.6	18592.0
72.5°	1109.9	1136.1	1383.6	1777.1	2212.2	2919.3	9213.0	20851.8	23978.6	24592.0	17686.5
75°	871.6	891.6	1002.3	1355.9	1741.7	1792.5	4943.9	15632.7	19694.2	20862.5	14724.2
77.5°	710.2	724.1	780.9	1006.9	1343.6	1269.8	2593.4	10175.3	12338.3	13514.3	8673.4
80°	564.2	579.6	613.4	682.6	1006.9	905.5	1237.5	5156.1	5960.1	5947.8	3462.0
82.5°	438.1	442.7	482.7	501.2	688.7	642.6	670.3	2183.0	2418.2	2498.1	1249.8
85°	276.7	290.5	427.4	384.3	412.0	376.6	330.5	867.0	1068.4	1053.0	499.6
87.5°	84.6	89.2	144.5	163.0	182.9	164.5	121.4	255.2	312.1	338.2	124.5
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°	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8	3432.8
2.5°	3452.8	3435.8	3375.9	3326.7	3280.6	3229.8	3186.8	3174.5	3163.7	3159.1	3157.6
5°	3485.0	3434.3	3315.9	3219.1	3142.2	3071.5	3026.9	3006.9	2987.0	2987.0	2993.1
7.5°	3531.2	3438.9	3256.0	3111.5	3014.6	2948.5	2916.2	2913.2	2917.8	2922.4	2923.9
10°	3581.9	3435.8	3168.4	2988.5	2902.4	2871.7	2873.2	2899.3	2923.9	2942.4	2945.4
12.5°	3631.1	3417.4	3065.4	2873.2	2817.9	2824.0	2867.0	2925.5	2973.1	2999.3	3000.8
15°	3686.4	3388.2	2940.8	2764.0	2745.6	2793.3	2873.2	2962.4	3034.6	3077.7	3082.3
17.5°	3732.5	3339.0	2810.2	2658.0	2681.0	2768.7	2879.3	2994.6	3082.3	3136.1	3145.3
20°	3784.8	3276.0	2674.9	2556.5	2622.6	2741.0	2867.0	2991.6	3082.3	3134.5	3146.8
22.5°	3826.3	3186.8	2545.8	2473.5	2570.3	2707.2	2825.5	2925.5	2999.3	3026.9	3045.4
25°	3843.2	3074.6	2424.3	2405.9	2528.8	2651.8	2731.8	2788.6	2811.7	2808.6	2816.3
27.5°	3834.0	2945.4	2319.8	2352.1	2476.6	2565.7	2605.7	2601.1	2559.6	2521.2	2539.6
30°	3795.6	2791.7	2232.1	2296.7	2408.9	2458.1	2452.0	2392.0	2313.6	2241.4	2246.0
32.5°	3726.4	2625.7	2150.7	2233.7	2313.6	2335.1	2293.6	2215.2	2103.0	2009.2	1995.4
35°	3668.0	2467.3	2078.4	2161.4	2218.3	2207.5	2167.6	2066.1	1964.7	1881.6	1867.8
37.5°	3658.7	2332.1	2009.2	2080.0	2112.2	2096.9	2047.7	1961.6	1924.7	1861.7	1854.0
40°	3707.9	2236.8	1938.5	1993.9	2009.2	1996.9	1943.1	1893.9	1927.8	1912.4	1912.4
42.5°	3841.7	2186.0	1875.5	1907.8	1920.1	1929.3	1890.9	1849.4	1890.9	1820.1	1797.1
45°	4053.8	2187.6	1818.6	1823.2	1860.1	1892.4	1866.3	1804.8	1783.3	1641.8	1614.2
47.5°	4365.9	2239.8	1772.5	1743.3	1809.4	1863.2	1826.3	1737.1	1641.8	1548.0	1531.1
50°	4730.2	2333.6	1731.0	1660.3	1741.7	1826.3	1798.6	1694.1	1595.7	1538.8	1528.1
52.5°	5134.5	2452.0	1680.3	1568.0	1658.7	1809.4	1804.8	1687.9	1552.7	1514.2	1505.0
55°	5634.2	2568.8	1617.2	1460.4	1584.9	1795.6	1787.9	1637.2	1543.4	1515.8	1512.7
57.5°	6215.3	2737.9	1526.5	1351.3	1500.4	1738.7	1721.8	1606.5	1512.7	1492.7	1491.2
60°	7151.5	3000.8	1397.4	1251.4	1414.3	1638.7	1660.3	1554.2	1463.5	1458.9	1457.3
62.5°	8382.8	3369.7	1263.7	1148.4	1314.4	1509.6	1571.1	1483.5	1411.2	1434.3	1437.4
65°	10083.1	3680.3	1125.3	1060.7	1203.7	1385.1	1486.6	1417.4	1352.8	1397.4	1397.4
67.5°	11191.5	3686.4	999.2	970.0	1091.5	1280.6	1397.4	1339.0	1277.5	1352.8	1355.9
70°	10960.9	3229.8	894.7	874.7	982.3	1168.3	1299.0	1252.9	1182.2	1249.8	1225.2
71°	10588.8	2976.2	853.2	837.8	939.3	1114.5	1252.9	1214.5	1143.7	1188.3	1174.5
72.5°	9995.5	2584.2	785.6	788.6	874.7	1046.9	1188.3	1148.4	1077.6	1102.2	1097.6
75°	8448.9	2256.7	671.8	685.6	751.7	931.6	1059.2	1028.4	956.2	956.2	951.6
77.5°	5282.1	1577.3	558.0	565.7	638.0	797.9	910.1	883.9	814.8	791.7	785.6
80°	1970.8	814.8	436.6	445.8	490.4	628.8	753.3	728.7	658.0	631.8	607.2
82.5°	745.6	408.9	321.3	313.6	361.3	479.6	590.3	561.1	505.8	442.7	424.3
85°	281.3	202.9	196.8	190.6	212.1	284.4	365.9	359.7	301.3	256.7	252.1
87.5°	73.8	66.1	76.9	56.9	60.0	53.8	55.3	23.1	10.8	4.6	3.1
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)