

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: P530438

Luminaire Tested: **GALN-SA5C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25245 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 269
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



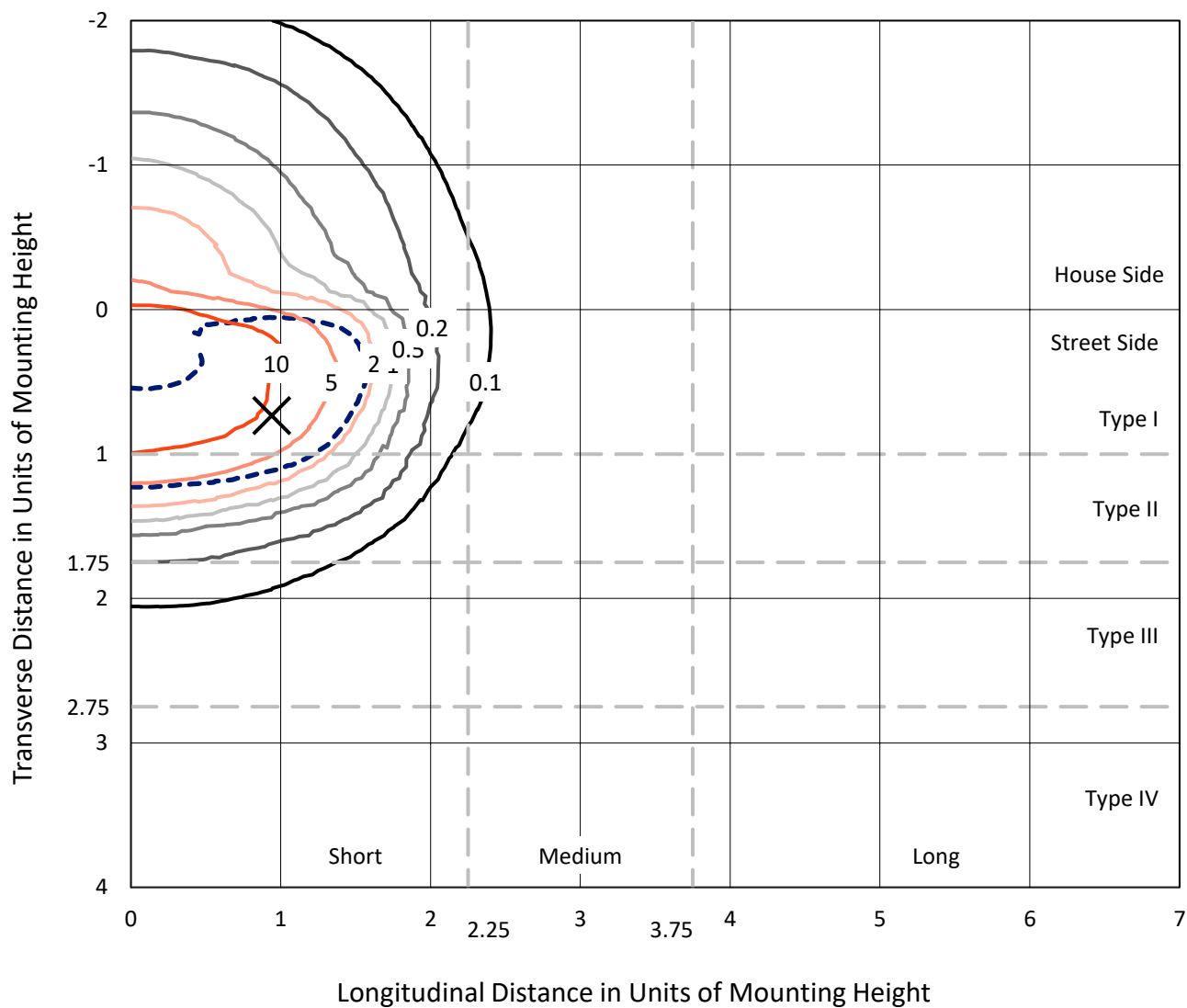
REPORT NUMBER: P530438

CATALOG NUMBER: GALN-SA5C-830-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

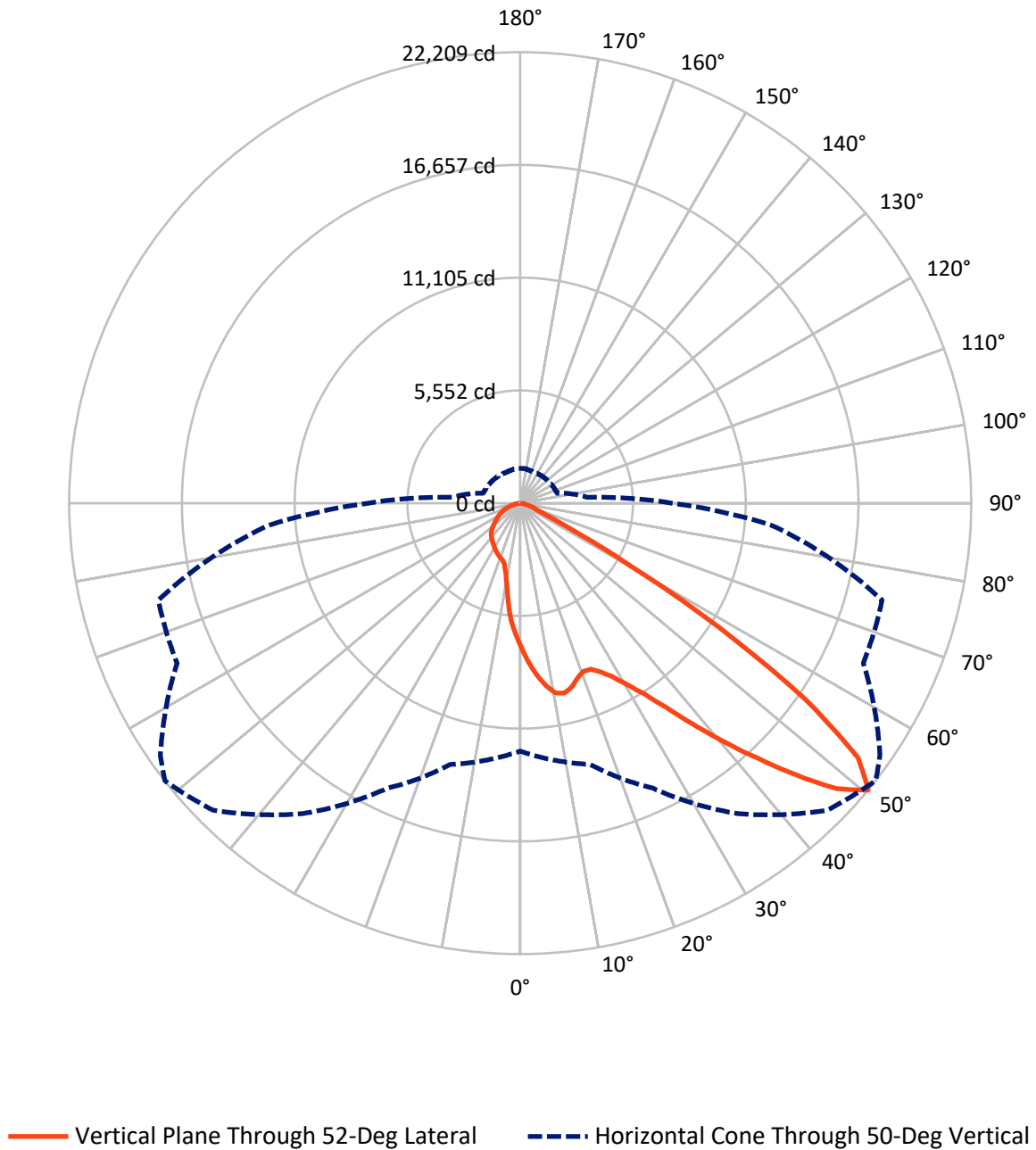
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
Type II - Short - N/A

REPORT NUMBER: P530438
CATALOG NUMBER: GALN-SA5C-830-U-AFL-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P530438

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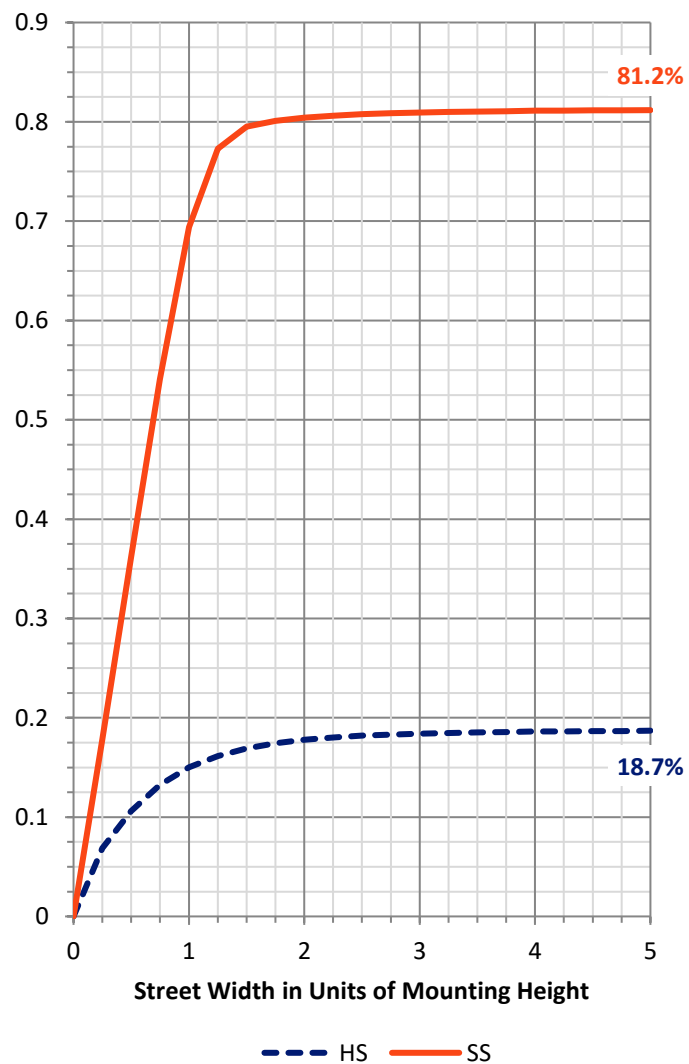
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4745.5	0.0	4745.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20499.5	0.0	20499.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	25245.0	0.0	25245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.9	2.6
10°-20°	1758.0	7.0
20°-30°	2961.2	11.7
30°-40°	4969.2	19.7
40°-50°	7601.6	30.1
50°-60°	5542.2	22.0
60°-70°	1233.4	4.9
70°-80°	444.9	1.8
80°-90°	78.7	0.3
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°	25245.0	100.0
0°-180°	25245.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530438

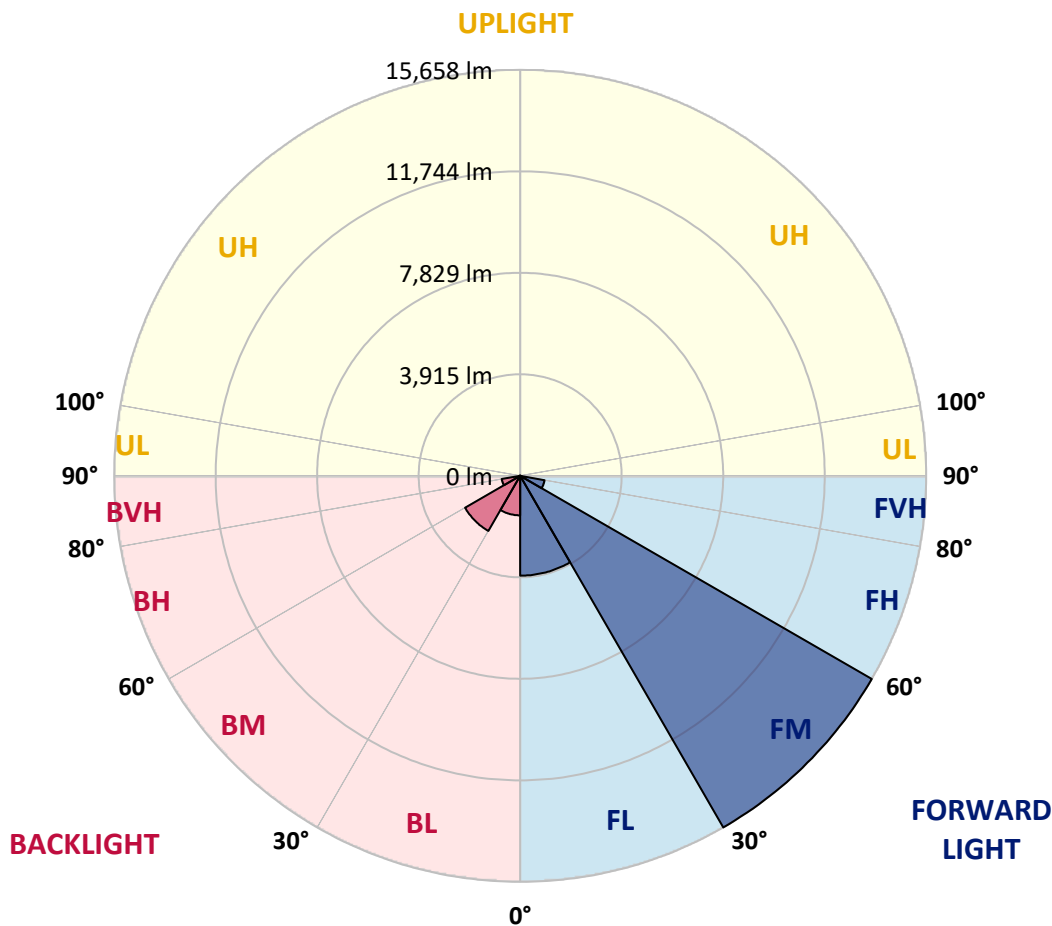
CATALOG NUMBER: GALN-SA5C-830-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3850.7	15.3			
FM	(30°-60°)	15658.2	62.0			
FH	(60°-80°)	955.3	3.8			G1/1800
FVH	(80°-90°)	35.3	0.1			G1/100
BL	(0°-30°)	1524.3	6.0	B3/2500		
BM	(30°-60°)	2454.7	9.7	B2/2500		
BH	(60°-80°)	723.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	43.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



REPORT NUMBER: P530438

CATALOG NUMBER: GALN-SA5C-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1
2.5°	8378.7	8217.5	8235.7	8120.1	7995.4	7958.9	7831.1	7709.4	7618.1	7423.4	7243.9
5°	9157.6	9108.9	9035.9	8944.6	8850.3	8619.1	8488.3	8336.1	8001.5	7700.3	7402.1
7.5°	9270.2	9261.0	9300.6	9300.6	9334.0	9245.8	9060.2	8953.7	8597.8	8108.0	7554.3
10°	8479.1	8506.5	8698.2	8947.7	9294.5	9534.8	9504.4	9477.0	9087.6	8418.3	7733.8
12.5°	7849.4	7788.5	7901.1	8114.1	8634.3	9215.4	9607.9	9610.9	9510.5	8914.2	7864.6
15°	7493.4	7536.0	7566.4	7666.8	8059.3	8731.7	9422.3	9626.1	10067.3	9264.1	8071.5
17.5°	7721.6	7578.6	7572.5	7596.8	7797.6	8302.7	9078.5	9428.4	10371.5	9714.3	8327.0
20°	8019.7	8016.7	7931.5	7901.1	7898.0	8348.3	8853.4	9328.0	10532.7	10298.5	8585.6
22.5°	8543.0	8543.0	8403.1	8336.1	8193.2	8561.3	8883.8	9206.3	10800.5	10700.1	8710.4
25°	9419.2	9276.2	9035.9	8871.6	8789.5	8920.3	9206.3	9495.3	11034.7	11126.0	8969.0
27.5°	10228.5	10003.4	9884.7	9601.8	9492.3	9416.2	9677.8	9969.9	11308.6	11789.3	9108.9
30°	11147.3	11107.8	10894.8	10529.7	10258.9	10119.0	10359.3	10648.4	11810.6	12467.7	9431.4
32.5°	12790.2	12431.2	12142.2	11694.9	11253.8	10955.6	11192.9	11384.6	12644.2	13176.6	9784.3
35°	14563.9	14448.3	13949.4	13143.1	12467.7	12200.0	12339.9	12482.9	13614.7	14259.7	10377.6
37.5°	16307.2	16149.0	15738.3	15059.8	14238.4	13693.8	13794.2	13961.5	14703.9	15720.0	11101.7
40°	17560.7	17366.0	17159.1	17058.7	16243.3	15497.9	15440.1	15482.7	16176.4	17089.1	11904.9
42.5°	17651.9	17892.3	17956.2	18360.8	18169.1	17557.6	17201.7	17210.8	17582.0	18443.0	12717.2
45°	17460.3	17238.2	17709.7	18814.1	19446.9	19732.9	19133.6	19057.5	18452.1	19227.9	13121.8
47.5°	15449.2	15510.1	16307.2	18053.5	19882.0	21159.8	21019.9	20767.3	18917.6	19200.5	13057.9
50°	12212.1	12580.3	13319.6	15494.9	18665.1	21384.9	22209.4	21625.3	18640.7	18446.0	12406.9
52.5°	8132.3	8284.4	8771.2	11579.3	15008.1	19115.3	20840.4	20974.2	18385.2	17457.2	11582.4
55°	3620.4	3608.3	4292.8	6048.3	9416.2	14545.7	17028.2	17843.6	17402.5	16450.2	10779.2
57.5°	1533.4	1585.1	1865.0	2613.4	4630.5	8777.3	11536.7	12251.7	13383.5	13508.2	8269.2
60°	1037.5	1043.5	1119.6	1308.2	1938.0	4122.4	6051.3	6909.3	7718.5	7663.8	4387.1
62.5°	815.4	836.7	894.5	970.5	1150.0	1871.1	2707.7	3185.4	3237.1	2722.9	1664.2
65°	696.7	699.7	757.6	821.4	900.5	1089.2	1305.2	1329.5	1344.7	1296.1	1223.0
67.5°	575.0	581.1	626.7	699.7	772.8	833.6	894.5	924.9	994.9	1131.8	1113.5
70°	456.4	465.5	505.0	565.9	632.8	669.3	745.4	772.8	836.7	943.1	985.7
72.5°	346.8	349.9	383.3	425.9	486.8	523.3	587.2	617.6	660.2	751.5	791.0
75°	249.5	258.6	282.9	304.2	313.4	337.7	398.6	432.0	492.9	532.4	535.5
77.5°	130.8	136.9	143.0	143.0	173.4	219.1	258.6	276.9	319.5	349.9	334.7
80°	51.7	54.8	70.0	94.3	121.7	158.2	185.6	194.7	231.2	249.5	258.6
82.5°	30.4	33.5	45.6	66.9	88.2	112.6	133.9	143.0	167.3	188.6	194.7
85°	15.2	18.3	27.4	42.6	57.8	70.0	66.9	63.9	63.9	60.8	63.9
87.5°	6.1	6.1	9.1	9.1	9.1	12.2	15.2	15.2	15.2	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P530438

CATALOG NUMBER: GALN-SA5C-830-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1	7116.1
2.5°	7125.3	7003.6	6891.0	6684.1	6459.0	6395.1	6133.5	6039.1	5972.2	5893.1	5868.8
5°	7161.8	7000.5	6638.5	6221.7	5890.1	5464.1	5184.2	4883.0	4664.0	4609.2	4594.0
7.5°	7237.8	6961.0	6337.3	5707.5	5029.1	4451.0	4009.9	3772.6	3562.6	3550.5	3529.2
10°	7323.0	6842.3	6008.7	5019.9	4152.9	3617.4	3352.7	3249.3	3197.6	3185.4	3179.3
12.5°	7393.0	6818.0	5640.6	4350.6	3532.2	3209.7	3130.6	3121.5	3142.8	3148.9	3161.0
15°	7423.4	6720.6	5196.4	3751.3	3145.8	3027.2	3060.6	3097.2	3112.4	3151.9	3121.5
17.5°	7481.2	6595.9	4648.8	3276.7	2929.8	2951.1	3008.9	3051.5	3075.9	3103.2	3063.7
20°	7511.7	6483.3	4134.6	2993.7	2853.8	2893.3	2972.4	3005.9	3036.3	3048.5	3002.8
22.5°	7484.3	6252.1	3681.3	2765.5	2780.7	2832.5	2902.4	2938.9	2920.7	2872.0	2844.6
25°	7411.3	5926.6	3209.7	2619.5	2677.3	2768.6	2823.3	2796.0	2762.5	2735.1	2726.0
27.5°	7408.2	5528.0	2869.0	2485.6	2589.1	2713.8	2695.6	2671.2	2686.4	2665.1	2640.8
30°	7423.4	5141.6	2589.1	2409.6	2525.2	2586.0	2607.3	2583.0	2601.2	2561.7	2573.9
32.5°	7344.3	4764.4	2406.5	2321.3	2449.1	2446.1	2516.1	2534.3	2491.7	2409.6	2421.7
35°	7377.8	4460.1	2251.4	2281.8	2363.9	2363.9	2418.7	2397.4	2284.8	2236.2	2248.3
37.5°	7609.0	4162.0	2175.3	2227.0	2281.8	2306.1	2287.9	2196.6	2169.2	2169.2	2175.3
40°	7828.1	3906.4	2129.7	2214.9	2205.7	2220.9	2087.1	2096.2	2096.2	2099.2	2084.0
42.5°	8022.8	3733.0	2093.2	2141.8	2157.1	2078.0	1995.8	1986.7	2008.0	2004.9	1992.8
45°	8092.8	3590.0	2041.4	2059.7	2071.9	1941.0	1901.5	1883.2	1907.6	1916.7	1928.9
47.5°	7825.0	3471.4	1983.6	1947.1	1922.8	1837.6	1785.9	1752.4	1782.8	1834.6	1846.7
50°	7481.2	3316.2	1892.4	1822.4	1770.7	1734.2	1697.7	1664.2	1685.5	1722.0	1712.9
52.5°	6973.2	3072.8	1776.8	1703.7	1615.5	1624.6	1591.2	1572.9	1585.1	1585.1	1576.0
55°	6249.1	2525.2	1582.0	1530.3	1457.3	1481.6	1487.7	1463.4	1439.0	1460.3	1442.1
57.5°	4265.4	1782.8	1411.7	1411.7	1338.7	1372.1	1369.1	1311.3	1253.5	1259.5	1247.4
60°	2467.4	1420.8	1302.1	1290.0	1213.9	1241.3	1247.4	1207.8	1119.6	1125.7	1113.5
62.5°	1402.5	1213.9	1137.9	1119.6	1104.4	1128.7	1128.7	1077.0	1000.9	1007.0	994.9
65°	1192.6	1125.7	1016.2	1013.1	1007.0	1013.1	988.8	934.0	867.1	839.7	842.7
67.5°	1083.1	1040.5	934.0	906.6	888.4	885.3	839.7	788.0	757.6	733.2	730.2
70°	949.2	915.8	836.7	800.1	781.9	739.3	693.7	660.2	617.6	605.4	617.6
72.5°	751.5	748.4	718.0	678.5	638.9	605.4	565.9	520.2	480.7	471.6	450.3
75°	520.2	526.3	532.4	526.3	492.9	450.3	404.6	368.1	319.5	292.1	286.0
77.5°	340.7	349.9	359.0	346.8	325.5	286.0	255.6	209.9	173.4	152.1	149.1
80°	249.5	261.6	267.7	258.6	234.3	203.8	170.4	133.9	106.5	88.2	88.2
82.5°	191.7	203.8	209.9	194.7	170.4	146.0	121.7	94.3	73.0	57.8	54.8
85°	66.9	63.9	76.1	79.1	94.3	88.2	73.0	54.8	42.6	30.4	27.4
87.5°	18.3	18.3	21.3	21.3	18.3	15.2	15.2	15.2	12.2	9.1	9.1
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)