

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: P451635

Luminaire Tested: **GALN-SA2C-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13176 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

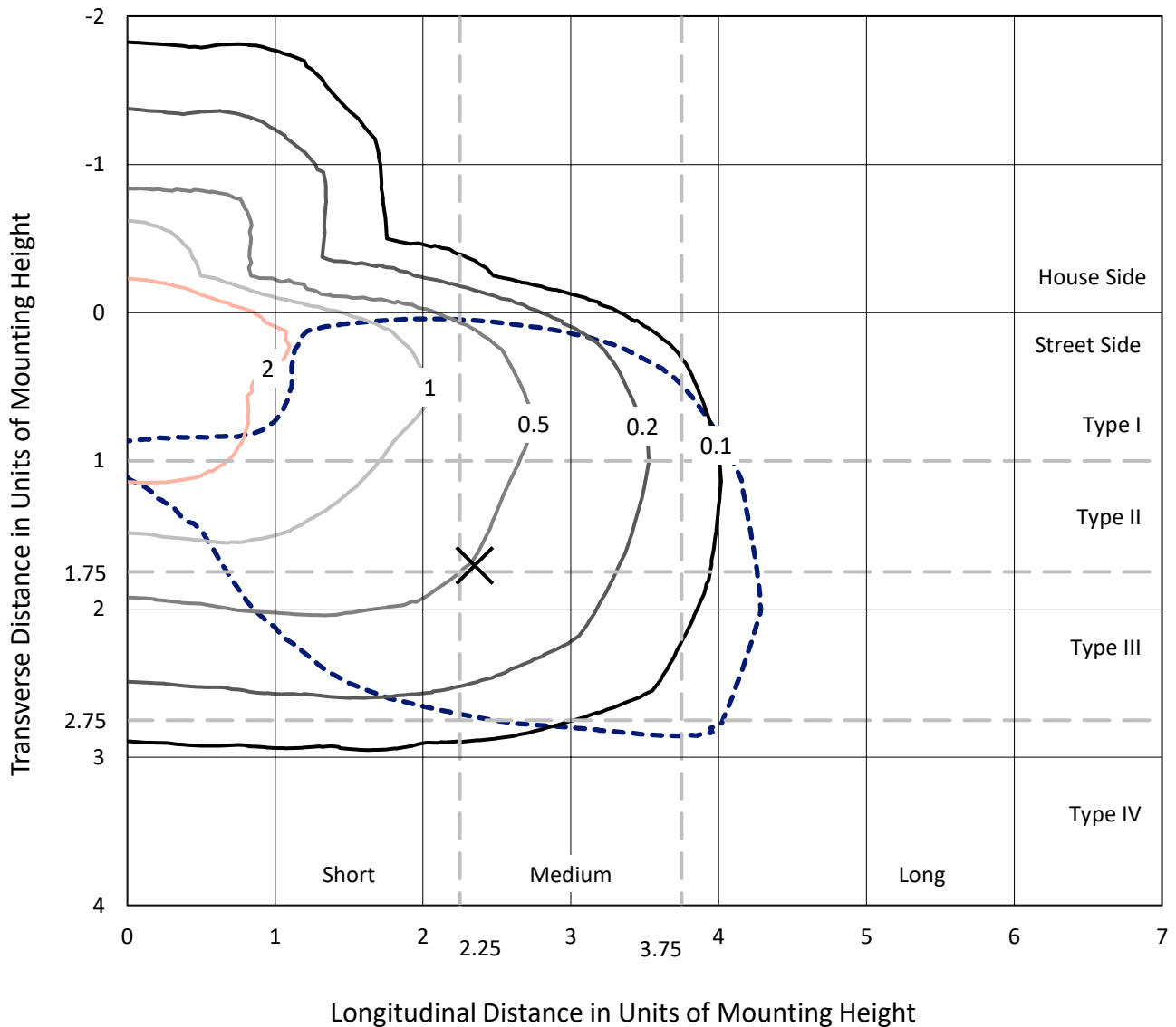
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

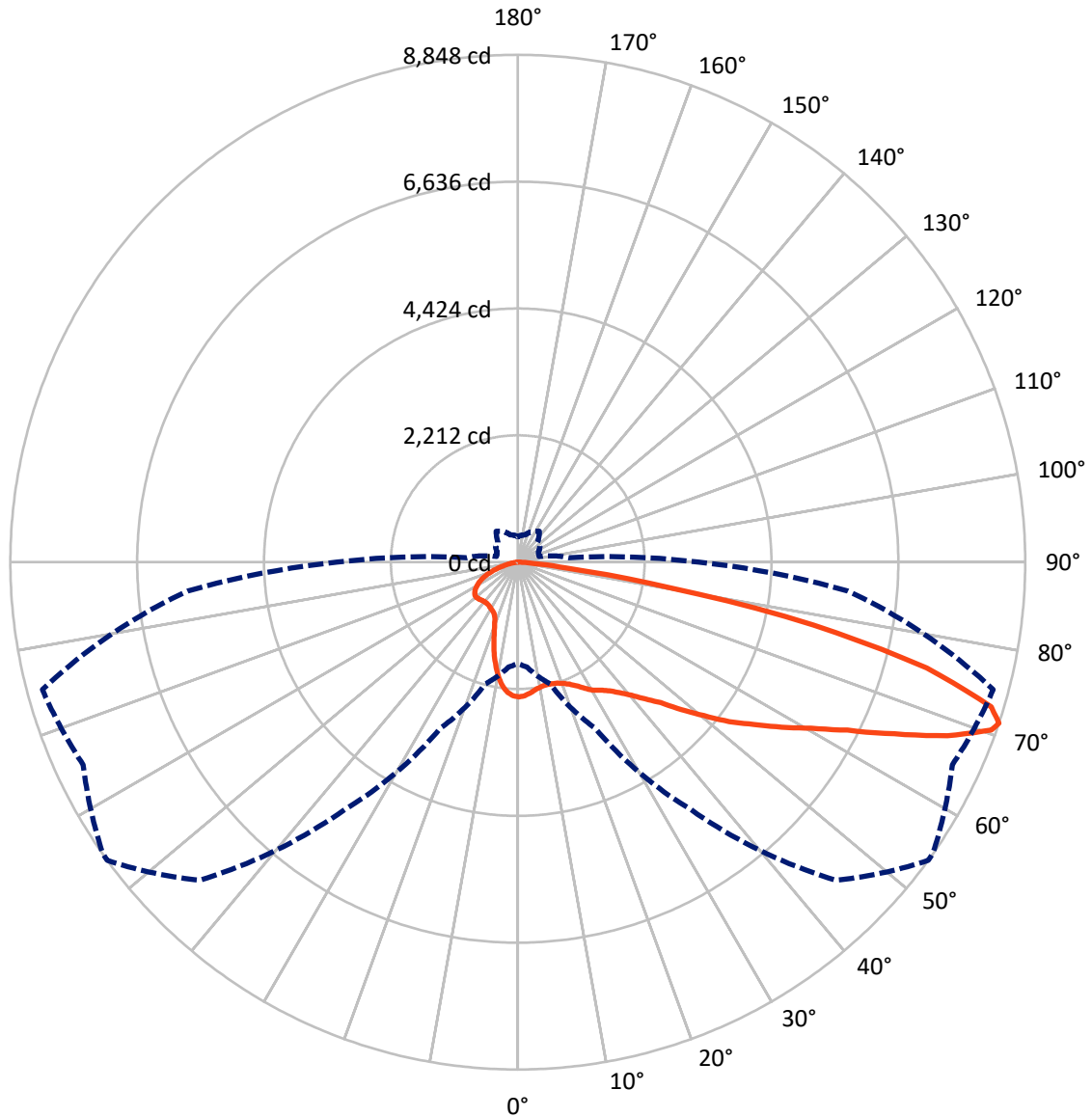
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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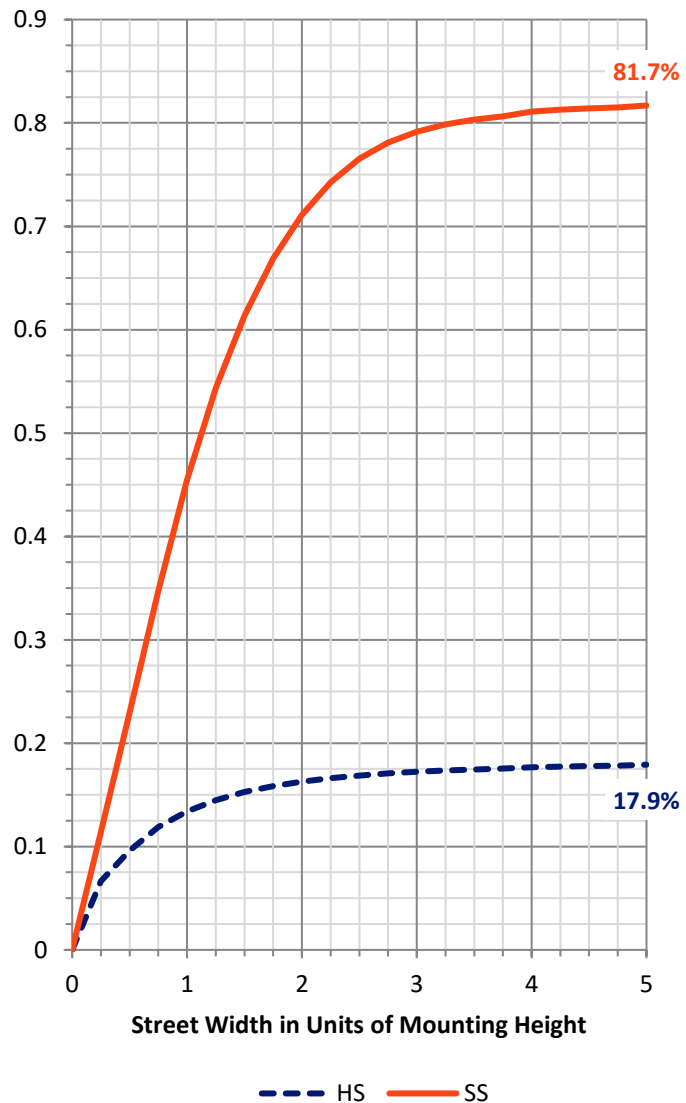
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2378.8	0.0	2378.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10797.2	0.0	10797.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	13176.0	0.0	13176.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.6
10°-20°	553.2	4.2
20°-30°	921.0	7.0
30°-40°	1361.9	10.3
40°-50°	1918.3	14.6
50°-60°	2568.7	19.5
60°-70°	3237.6	24.6
70°-80°	2211.3	16.8
80°-90°	194.5	1.5
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°	13176.0	100.0
0°-180°	13176.0	100.0



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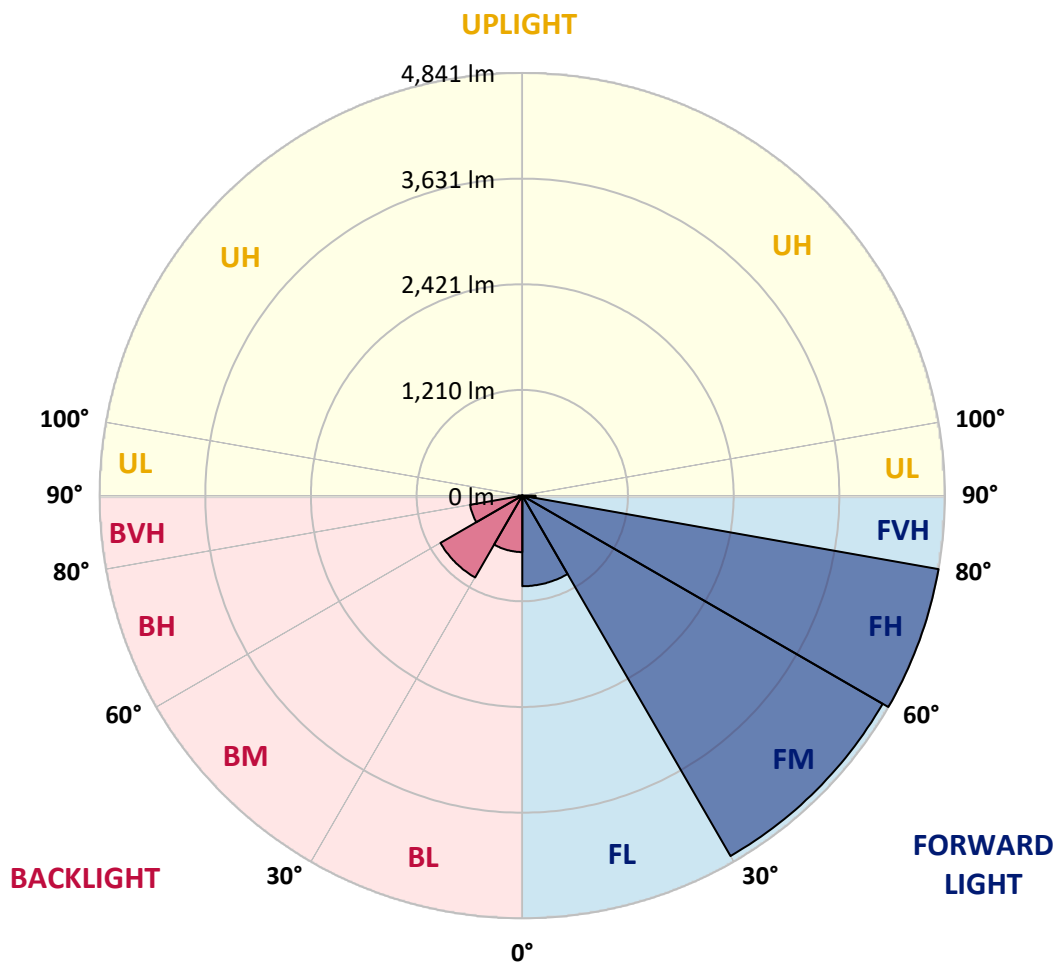
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1037.2	7.9			
FM	(30°-60°)	4766.6	36.2			
FH	(60°-80°)	4841.4	36.7			G2/5000
FVH	(80°-90°)	152.0	1.2			G2/225
BL	(0°-30°)	646.5	4.9	B2/1000		
BM	(30°-60°)	1082.3	8.2	B2/2500		
BH	(60°-80°)	607.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	42.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8
2.5°	2271.1	2281.8	2284.6	2291.7	2306.7	2318.8	2330.9	2329.4	2346.5	2353.6	2360.0
5°	2170.0	2172.9	2183.5	2197.8	2224.1	2257.6	2290.3	2291.0	2333.0	2366.5	2382.8
7.5°	2096.0	2105.3	2112.4	2127.3	2155.1	2191.4	2243.3	2247.6	2322.3	2388.5	2423.4
10°	2047.6	2058.3	2066.1	2084.6	2112.4	2152.9	2209.2	2217.0	2314.5	2423.4	2484.6
12.5°	2003.5	2014.2	2021.3	2045.5	2081.8	2131.6	2194.9	2204.2	2317.3	2464.0	2551.5
15°	2030.5	2039.1	2036.2	2043.3	2067.5	2124.5	2200.6	2209.9	2328.0	2503.1	2617.7
17.5°	2150.8	2157.9	2134.4	2107.4	2096.0	2138.0	2218.4	2228.4	2349.4	2543.7	2685.3
20°	2328.0	2347.2	2296.0	2235.5	2180.7	2186.4	2255.4	2266.1	2379.3	2584.2	2754.3
22.5°	2558.6	2572.8	2510.2	2410.6	2309.5	2257.6	2310.9	2317.3	2424.1	2636.9	2829.8
25°	2829.8	2838.3	2751.5	2623.4	2477.5	2379.3	2387.1	2398.5	2498.1	2696.7	2896.7
27.5°	3093.1	3120.2	3019.8	2863.2	2671.1	2507.4	2491.7	2498.8	2578.5	2730.1	2942.9
30°	3405.6	3403.4	3297.4	3115.9	2869.6	2646.9	2590.6	2589.2	2622.0	2746.5	2976.4
32.5°	3654.7	3683.8	3579.9	3382.1	3096.7	2791.3	2659.0	2656.1	2655.4	2775.0	3026.2
35°	3937.9	3942.2	3846.8	3647.5	3342.2	2972.8	2754.3	2740.1	2723.7	2836.2	3093.8
37.5°	4191.3	4211.2	4123.7	3900.2	3583.5	3161.4	2885.3	2876.0	2826.2	2942.2	3202.0
40°	4389.1	4404.1	4351.4	4138.6	3821.2	3365.0	3051.8	3034.8	2974.3	3115.9	3346.5
42.5°	4453.9	4484.5	4505.2	4400.5	4094.5	3606.3	3256.8	3235.5	3189.2	3379.2	3513.0
45°	4458.9	4507.3	4616.2	4621.2	4369.2	3895.2	3495.9	3481.0	3477.4	3716.6	3747.2
47.5°	4421.2	4470.3	4653.2	4752.1	4614.0	4187.0	3841.1	3817.6	3819.8	4133.6	4009.8
50°	4330.1	4388.4	4610.5	4836.1	4805.5	4490.2	4205.5	4197.7	4241.8	4609.8	4282.4
52.5°	4158.5	4229.0	4566.4	4888.8	4947.8	4751.4	4619.7	4597.7	4709.4	5126.5	4580.6
55°	3683.8	3789.9	4404.8	4917.9	5083.1	5001.2	4992.7	5032.5	5180.6	5690.2	4908.7
57.5°	3436.2	3515.9	4053.9	4922.9	5253.9	5291.6	5428.2	5438.2	5697.3	6288.7	5279.5
60°	3300.9	3371.4	3861.8	4890.2	5492.3	5651.0	5873.8	5909.4	6201.9	6937.1	5663.8
62.5°	3182.8	3243.3	3746.5	4777.0	5761.3	6184.1	6451.0	6468.1	6774.8	7653.1	6043.2
65°	2904.5	2973.5	3514.4	4663.9	5993.3	6850.3	7216.8	7196.9	7384.8	8270.8	6280.9
67.5°	2529.4	2617.0	3081.0	4273.1	6107.9	7578.3	8079.4	8054.5	7986.9	8675.8	6349.2
70°	2050.4	2097.4	2526.6	3597.7	5650.3	7960.5	8760.5	8734.2	8359.8	8729.2	6026.1
71°	1764.3	1837.6	2199.9	3195.6	5269.5	7843.8	8848.0	8840.9	8360.5	8581.9	5782.7
72.5°	1377.2	1422.0	1742.3	2476.1	4478.8	7180.5	8631.7	8658.7	8179.0	8172.6	5280.9
75°	871.1	891.1	1093.2	1457.6	2457.6	5085.2	7368.4	7441.7	7262.3	6689.4	3927.2
77.5°	506.0	531.7	654.8	859.0	1061.9	2760.0	5272.4	5352.1	5046.1	3683.1	1607.8
80°	294.6	323.1	431.3	498.9	487.5	1024.2	2684.6	2820.5	2185.0	930.2	451.2
82.5°	163.7	182.9	303.2	303.9	259.8	334.5	844.8	883.9	623.5	375.1	184.3
85°	118.9	134.5	195.7	177.2	124.6	143.8	293.9	308.2	251.9	158.0	59.8
87.5°	42.0	59.8	107.5	85.4	34.2	29.9	84.7	69.0	64.1	44.1	13.5
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°	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8
2.5°	2363.6	2365.0	2357.9	2345.1	2332.3	2315.9	2297.4	2283.2	2276.8	2276.1	2275.4
5°	2389.2	2392.8	2365.7	2325.9	2281.8	2227.7	2181.4	2128.7	2115.2	2093.9	2100.3
7.5°	2430.5	2428.4	2375.0	2290.3	2187.1	2072.5	1975.7	1919.5	1861.1	1844.8	1845.5
10°	2489.6	2476.1	2375.0	2217.7	2045.5	1875.4	1740.1	1654.7	1608.5	1570.0	1555.8
12.5°	2552.2	2518.0	2352.2	2115.9	1863.3	1654.7	1509.5	1394.2	1364.4	1333.0	1333.8
15°	2612.0	2555.1	2307.4	1972.9	1666.8	1419.2	1278.2	1209.2	1200.0	1203.5	1202.8
17.5°	2666.1	2581.4	2239.1	1813.4	1437.7	1217.0	1142.3	1147.3	1172.2	1190.0	1192.1
20°	2720.9	2597.0	2137.3	1599.9	1221.3	1094.6	1097.5	1136.6	1174.3	1198.5	1202.1
22.5°	2772.8	2604.2	2017.7	1393.5	1064.7	1042.7	1084.7	1126.6	1163.7	1187.1	1190.7
25°	2807.0	2587.8	1848.3	1177.9	987.9	1024.2	1068.3	1103.9	1135.2	1159.4	1165.1
27.5°	2816.3	2535.1	1638.4	1003.5	952.3	1006.4	1046.9	1073.3	1097.5	1120.2	1124.5
30°	2811.3	2457.6	1407.8	901.0	931.6	985.7	1017.0	1036.3	1065.4	1083.2	1086.8
32.5°	2803.4	2367.2	1167.2	846.2	914.6	966.5	985.0	1002.1	1001.4	994.3	999.2
35°	2806.3	2259.0	972.2	813.5	899.6	952.3	967.9	946.6	885.4	882.5	879.7
37.5°	2821.2	2152.2	830.6	790.7	891.8	950.1	958.7	860.5	806.4	781.5	775.1
40°	2859.7	2027.7	737.3	773.6	891.1	966.5	916.7	817.0	713.1	664.7	661.2
42.5°	2910.9	1905.3	680.4	763.0	899.6	991.4	899.6	755.8	642.7	614.2	609.9
45°	2987.1	1765.1	649.1	758.0	912.4	1000.7	893.9	711.0	614.2	591.4	591.4
47.5°	3073.2	1631.2	632.0	754.4	928.8	994.3	843.4	696.8	600.7	603.5	617.1
50°	3158.6	1515.2	619.2	746.6	943.0	990.7	822.7	696.1	604.2	640.5	664.7
52.5°	3257.5	1433.4	603.5	733.8	943.0	967.9	816.3	710.3	614.2	624.9	635.6
55°	3377.1	1407.8	583.6	706.0	925.9	911.0	812.8	730.9	621.3	596.4	600.7
57.5°	3535.1	1449.1	564.4	671.1	886.8	851.9	811.4	736.6	605.0	584.3	580.0
60°	3718.7	1530.9	558.7	635.6	833.4	801.4	802.8	720.3	582.2	560.8	564.4
62.5°	3847.5	1580.0	555.1	608.5	775.1	745.9	782.2	700.3	572.2	553.7	557.3
65°	3847.5	1520.2	522.4	567.2	699.6	679.0	757.3	675.4	559.4	538.1	534.5
67.5°	3701.6	1345.9	472.6	505.3	616.3	602.8	722.4	645.5	540.2	523.8	515.3
70°	3321.6	1020.6	409.9	432.7	511.0	523.1	677.6	605.0	508.2	488.2	475.4
71°	3154.3	888.9	383.6	395.7	470.4	488.2	656.2	587.9	493.9	465.5	442.7
72.5°	2831.9	748.7	343.8	348.7	402.1	434.1	611.4	555.1	466.9	426.3	400.7
75°	2151.5	546.6	276.9	274.0	297.5	344.5	517.4	494.6	409.2	354.4	339.5
77.5°	929.5	297.5	207.1	209.2	202.1	261.2	407.1	424.9	350.9	288.2	274.7
80°	281.8	171.5	141.6	144.5	135.2	175.1	286.8	333.1	281.8	224.2	205.7
82.5°	144.5	102.5	96.8	95.4	86.1	98.9	173.7	227.7	201.4	140.2	123.8
85°	62.6	54.8	47.7	46.3	40.6	35.6	61.9	113.9	106.8	78.3	74.7
87.5°	15.7	14.2	9.3	8.5	5.0	0.7	0.0	0.0	0.0	0.0	0.0
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)