

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: P451617

Luminaire Tested: **GALN-SA2C-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10538 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

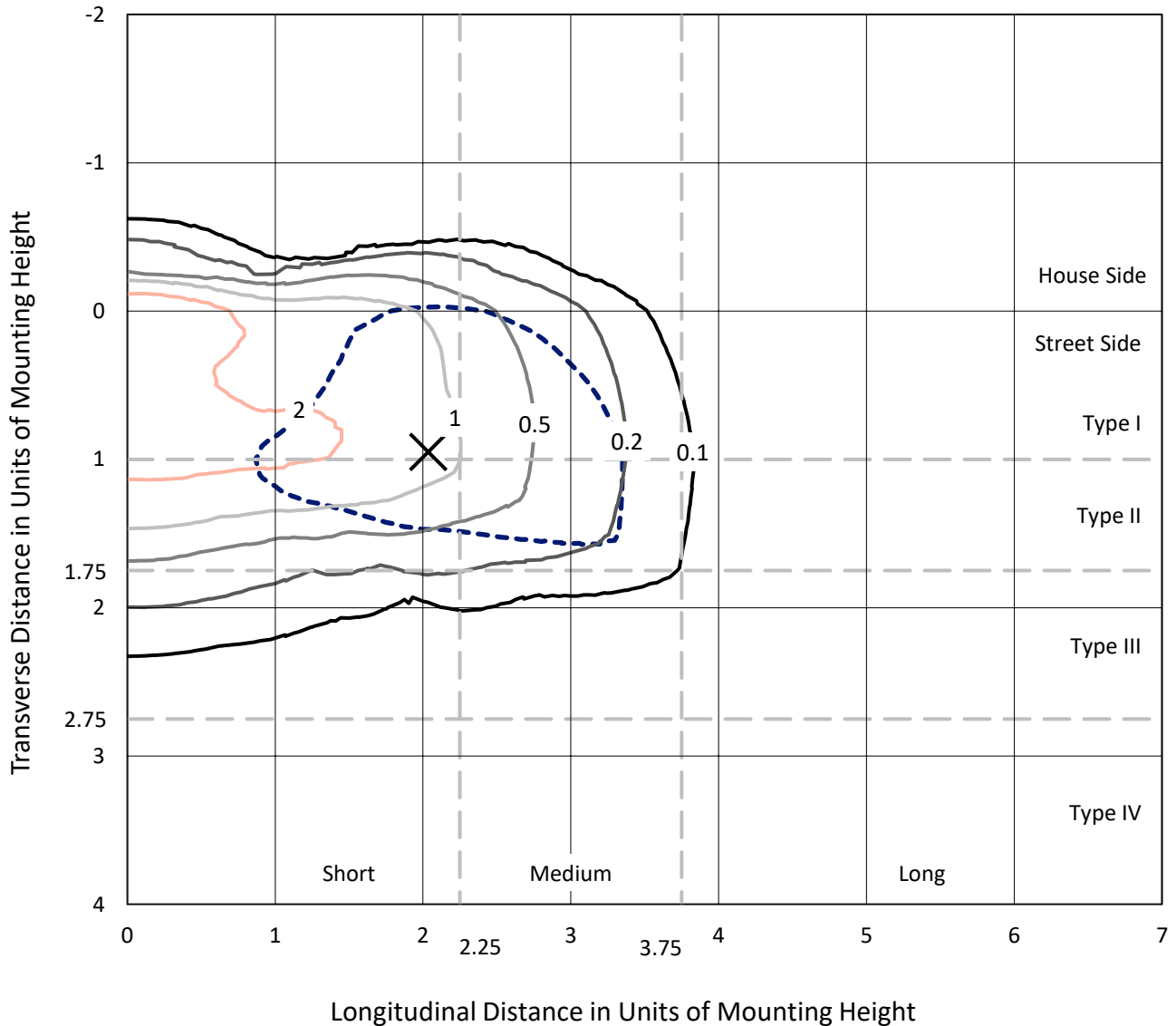
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451617
 CATALOG NUMBER: GALN-SA2C-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

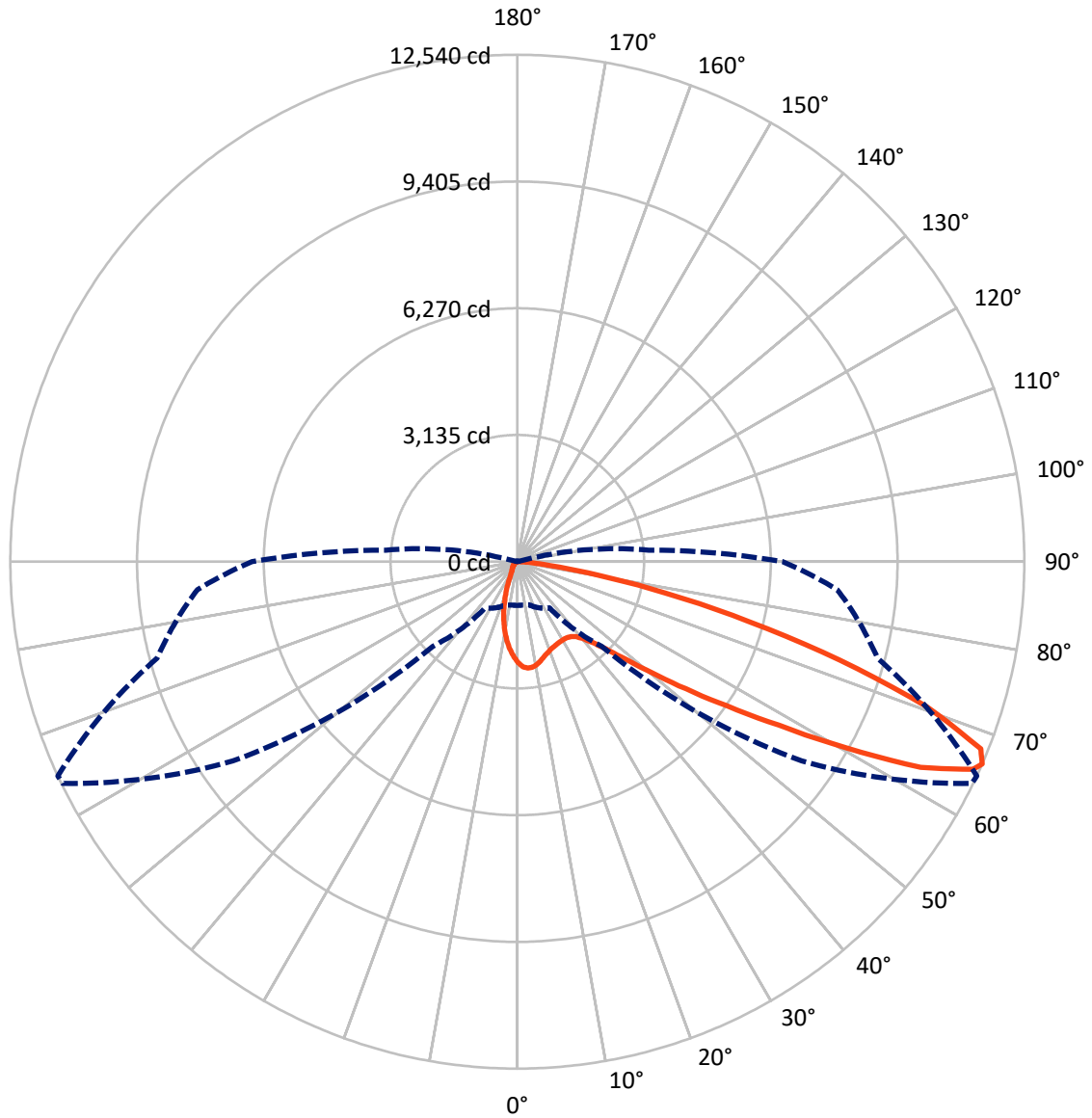
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

REPORT NUMBER: P451617
CATALOG NUMBER: GALN-SA2C-730-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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 CATALOG NUMBER: GALN-SA2C-730-U-SL2-HSS

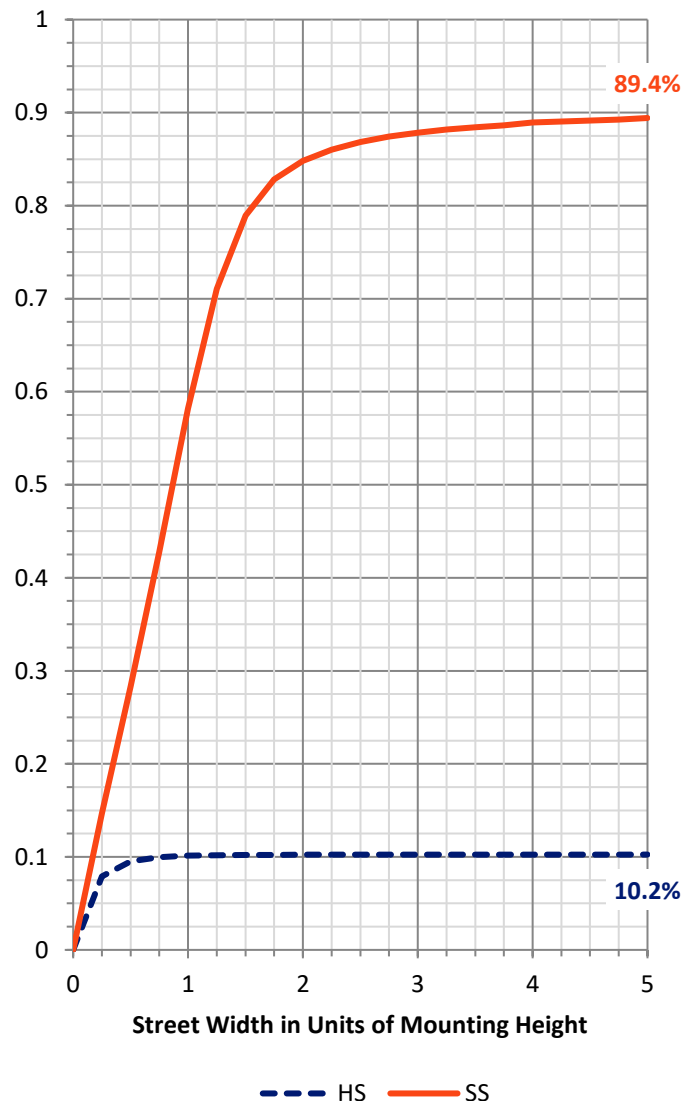
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1089.8	0.0	1089.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9448.2	0.0	9448.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	10538.0	0.0	10538.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	1.9
10°-20°	445.3	4.2
20°-30°	637.9	6.1
30°-40°	931.7	8.8
40°-50°	1562.3	14.8
50°-60°	2607.3	24.7
60°-70°	2767.5	26.3
70°-80°	1253.4	11.9
80°-90°	128.2	1.2
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°	10538.0	100.0
0°-180°	10538.0	100.0



REPORT NUMBER: P451617

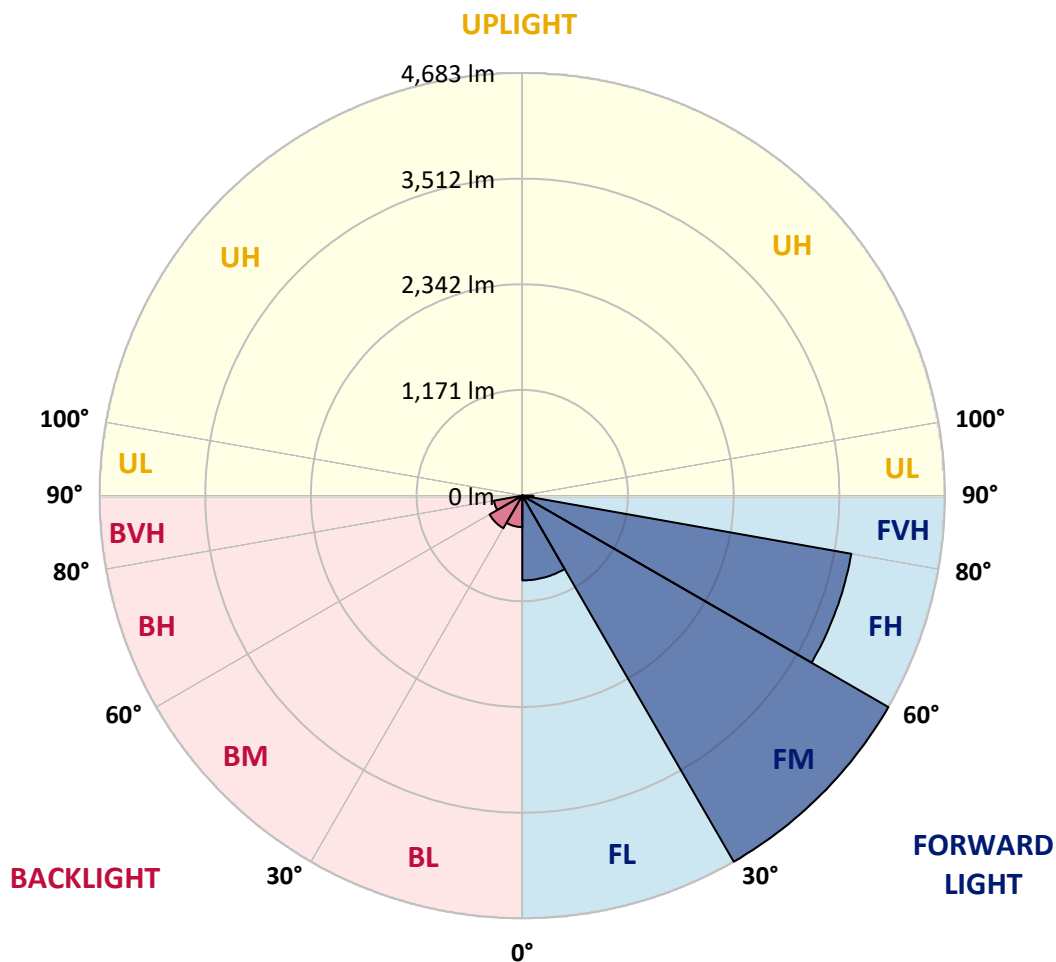
CATALOG NUMBER: GALN-SA2C-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.0	8.9			
FM (30°-60°)	4683.3	44.4			
FH (60°-80°)	3701.8	35.1			G2/5000
FVH (80°-90°)	124.2	1.2			G2/225
BL (0°-30°)	348.6	3.3	B1/500		
BM (30°-60°)	417.9	4.0	B1/1000		
BH (60°-80°)	319.1	3.0	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P451617

CATALOG NUMBER: GALN-SA2C-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9
2.5°	2633.5	2636.3	2639.9	2644.9	2648.4	2637.7	2622.8	2605.7	2602.2	2565.9	2521.7
5°	2492.5	2496.8	2528.1	2545.2	2583.6	2618.5	2640.6	2643.4	2642.0	2607.8	2537.4
7.5°	2291.8	2303.9	2334.5	2364.4	2436.3	2502.5	2580.8	2635.6	2639.2	2629.9	2542.4
10°	2128.8	2136.7	2152.3	2211.4	2271.2	2372.3	2481.9	2585.1	2593.6	2630.6	2538.1
12.5°	2001.4	2012.8	2032.0	2077.6	2149.5	2244.9	2369.4	2508.2	2526.0	2617.1	2526.0
15°	1912.5	1918.2	1937.4	1982.2	2052.0	2140.2	2266.2	2427.8	2443.4	2599.3	2523.9
17.5°	1870.5	1876.9	1890.4	1926.0	1983.6	2065.5	2188.6	2363.0	2382.9	2587.9	2531.7
20°	1881.9	1887.6	1888.3	1906.8	1945.9	2015.0	2131.7	2302.5	2328.1	2580.8	2544.5
22.5°	1946.6	1947.3	1938.8	1930.3	1943.8	1993.6	2096.8	2264.1	2290.4	2579.4	2559.4
25°	2043.4	2045.6	2031.3	2001.4	1974.4	2000.0	2089.0	2239.2	2262.6	2575.8	2568.7
27.5°	2177.2	2176.5	2172.3	2122.4	2045.6	2028.5	2095.4	2225.6	2245.6	2565.9	2572.3
30°	2364.4	2358.7	2349.5	2293.3	2175.8	2097.5	2122.4	2217.1	2235.6	2551.6	2563.0
32.5°	2548.8	2570.1	2568.7	2515.3	2368.7	2220.7	2178.7	2228.5	2242.0	2542.4	2549.5
35°	2763.7	2763.0	2817.8	2797.9	2626.4	2378.0	2274.7	2266.2	2276.9	2548.8	2543.1
37.5°	2963.0	2981.5	3066.9	3087.6	2931.0	2600.0	2410.7	2347.3	2350.9	2592.2	2558.7
40°	3211.4	3247.0	3374.4	3443.4	3305.4	2929.6	2611.4	2496.1	2496.8	2698.9	2617.8
42.5°	3531.7	3587.9	3706.8	3822.1	3748.1	3319.6	2912.5	2731.7	2730.3	2886.9	2753.0
45°	3921.0	3960.2	4095.4	4278.3	4231.3	3864.1	3350.9	3096.8	3078.3	3195.0	2992.9
47.5°	4257.0	4310.3	4447.7	4656.3	4869.8	4528.9	3874.8	3598.6	3586.5	3685.4	3404.3
50°	4403.6	4450.6	4595.0	4887.6	5405.0	5401.5	4654.8	4331.0	4310.3	4363.7	4040.6
52.5°	4242.7	4286.9	4432.8	4797.2	5657.0	6464.8	5785.1	5249.9	5224.9	5156.6	4800.7
55°	3691.8	3728.1	3943.8	4362.3	5560.2	7173.7	7342.4	6385.1	6288.3	6022.8	5661.2
57.5°	2939.5	2921.0	3054.8	3540.9	4992.2	7411.4	8941.0	7799.3	7626.4	6771.6	6389.4
60°	2037.0	2094.0	2148.1	2468.3	3753.8	6999.3	9935.3	9577.3	9349.5	7508.2	7086.9
62.5°	1497.5	1535.2	1570.8	1718.9	2360.2	5588.6	10111.1	11403.6	11201.5	8290.4	7752.4
65°	1184.3	1187.2	1201.4	1347.3	1555.2	3634.2	9266.3	12433.5	12381.6	9043.5	8022.1
66°	1079.0	1079.7	1101.8	1258.4	1395.7	2959.4	8589.4	12511.8	12540.3	9224.3	7943.1
67.5°	943.1	940.2	972.2	1131.0	1271.2	2133.8	7378.0	12194.4	12363.1	9363.0	7659.1
70°	731.0	727.4	766.6	948.8	1170.8	1423.5	4903.9	10470.5	10742.4	9079.1	6776.6
72.5°	486.8	489.7	556.6	748.8	1117.4	1253.4	2950.2	7965.2	8349.5	7497.6	5331.0
75°	284.0	289.0	365.1	556.6	970.1	1195.0	1669.8	5679.8	5925.3	5177.3	3321.0
77.5°	148.8	150.9	204.3	367.3	743.8	1109.6	1112.5	3628.5	3743.8	2516.0	1314.6
80°	79.0	76.9	109.6	221.4	511.7	974.4	902.5	1921.0	1997.2	747.3	332.4
82.5°	29.9	32.7	58.4	145.2	302.5	699.6	777.2	849.1	822.8	164.4	139.5
85°	5.7	7.1	24.9	86.1	152.3	292.5	573.0	416.4	385.8	61.9	80.4
87.5°	0.7	1.4	7.1	20.6	22.1	98.9	169.4	115.3	99.6	22.8	33.5
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: P451617

CATALOG NUMBER: GALN-SA2C-730-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9	2498.9
2.5°	2500.4	2481.2	2417.1	2353.8	2289.0	2230.6	2190.8	2126.0	2109.6	2086.1	2072.6
5°	2495.4	2450.5	2327.4	2192.9	2067.6	1932.4	1829.2	1729.5	1676.2	1649.1	1639.2
7.5°	2481.2	2410.0	2217.8	2007.1	1806.4	1604.3	1428.5	1294.7	1208.5	1149.5	1109.6
10°	2452.7	2354.5	2090.4	1800.7	1497.5	1230.6	1007.8	838.4	707.5	666.2	667.6
12.5°	2423.5	2292.5	1948.1	1571.5	1195.7	859.1	622.8	489.0	426.3	405.7	401.4
15°	2396.5	2233.5	1808.6	1349.5	890.4	556.6	401.4	354.5	337.4	333.8	333.1
17.5°	2382.2	2178.7	1659.8	1095.4	621.4	377.9	321.7	308.9	303.9	300.4	298.9
20°	2370.1	2131.0	1517.4	857.7	424.9	309.6	288.3	276.2	267.6	264.1	261.9
22.5°	2361.6	2081.9	1370.1	664.1	325.3	274.7	255.5	239.9	227.8	223.5	220.6
25°	2348.8	2027.8	1221.4	485.4	274.0	244.1	222.1	203.6	187.9	180.1	178.6
27.5°	2330.3	1966.6	1058.4	359.4	244.8	217.1	190.0	167.3	151.6	143.1	143.8
30°	2300.4	1902.5	895.4	285.4	221.4	189.3	160.1	138.1	123.1	116.7	116.0
32.5°	2264.8	1824.9	745.9	244.8	200.0	164.4	133.8	114.6	103.2	98.2	97.5
35°	2231.3	1746.6	593.6	219.9	177.9	141.6	112.5	96.1	87.5	83.3	84.0
37.5°	2212.8	1676.9	462.6	200.0	160.1	121.7	96.8	82.6	74.7	71.2	70.5
40°	2224.9	1619.9	368.0	182.2	140.2	104.6	83.3	71.2	63.3	58.4	58.4
42.5°	2281.9	1595.0	296.8	165.1	121.7	90.4	72.6	61.2	52.7	47.7	48.4
45°	2455.5	1621.4	248.4	149.5	104.6	78.3	62.6	50.5	42.7	39.1	38.4
47.5°	2743.8	1720.3	214.9	133.1	89.7	66.9	52.7	42.0	34.2	31.3	30.6
50°	3247.7	1924.6	190.0	116.7	76.2	56.9	43.4	33.5	27.0	24.2	24.2
52.5°	3941.0	2370.1	172.2	98.2	64.1	48.4	35.6	27.0	21.4	19.2	18.5
55°	4665.5	2839.9	163.0	82.6	53.4	39.9	28.5	21.4	16.4	14.2	13.5
57.5°	5362.3	3208.6	152.3	66.9	42.7	30.6	22.1	16.4	11.4	10.0	9.3
60°	6030.6	3506.8	129.5	53.4	33.5	22.1	16.4	11.4	7.8	6.4	6.4
62.5°	6628.5	3680.5	101.8	42.7	25.6	15.7	10.7	8.5	5.7	4.3	4.3
65°	6698.3	3454.8	76.9	32.7	18.5	10.0	6.4	6.4	4.3	2.8	2.8
66°	6558.0	3263.4	67.6	29.9	16.4	8.5	5.7	5.0	3.6	2.1	2.1
67.5°	6244.9	2936.7	58.4	25.6	13.5	6.4	4.3	4.3	2.8	1.4	1.4
70°	5395.8	2398.6	46.3	19.2	10.0	5.0	2.8	2.8	2.1	1.4	1.4
72.5°	4112.5	1790.8	37.7	14.2	7.1	3.6	2.1	2.1	2.1	1.4	1.4
75°	2480.4	964.4	29.2	10.7	6.4	2.8	1.4	2.1	2.8	2.1	1.4
77.5°	913.9	328.1	22.8	8.5	5.0	2.8	1.4	1.4	2.8	2.1	2.1
80°	224.2	85.4	16.4	7.1	5.0	2.8	1.4	1.4	2.8	2.8	2.8
82.5°	103.9	36.3	11.4	6.4	5.0	2.8	1.4	1.4	2.1	2.8	2.8
85°	59.8	17.1	9.3	7.1	5.0	2.8	1.4	1.4	2.1	2.8	2.8
87.5°	24.2	8.5	8.5	7.1	5.7	3.6	1.4	1.4	1.4	2.1	2.1
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)