

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: P451589

Luminaire Tested: **GALN-SA2C-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11802 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

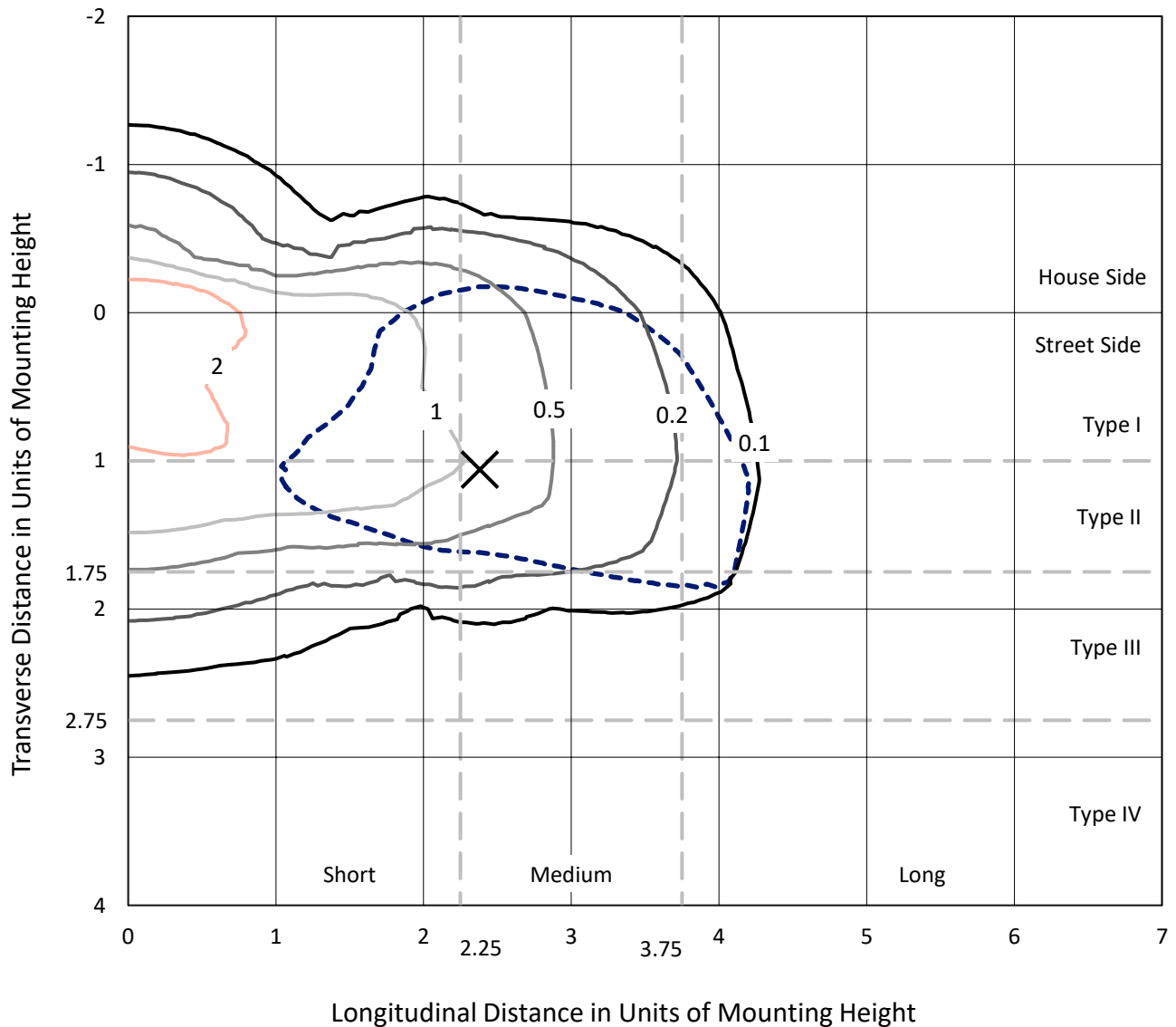
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

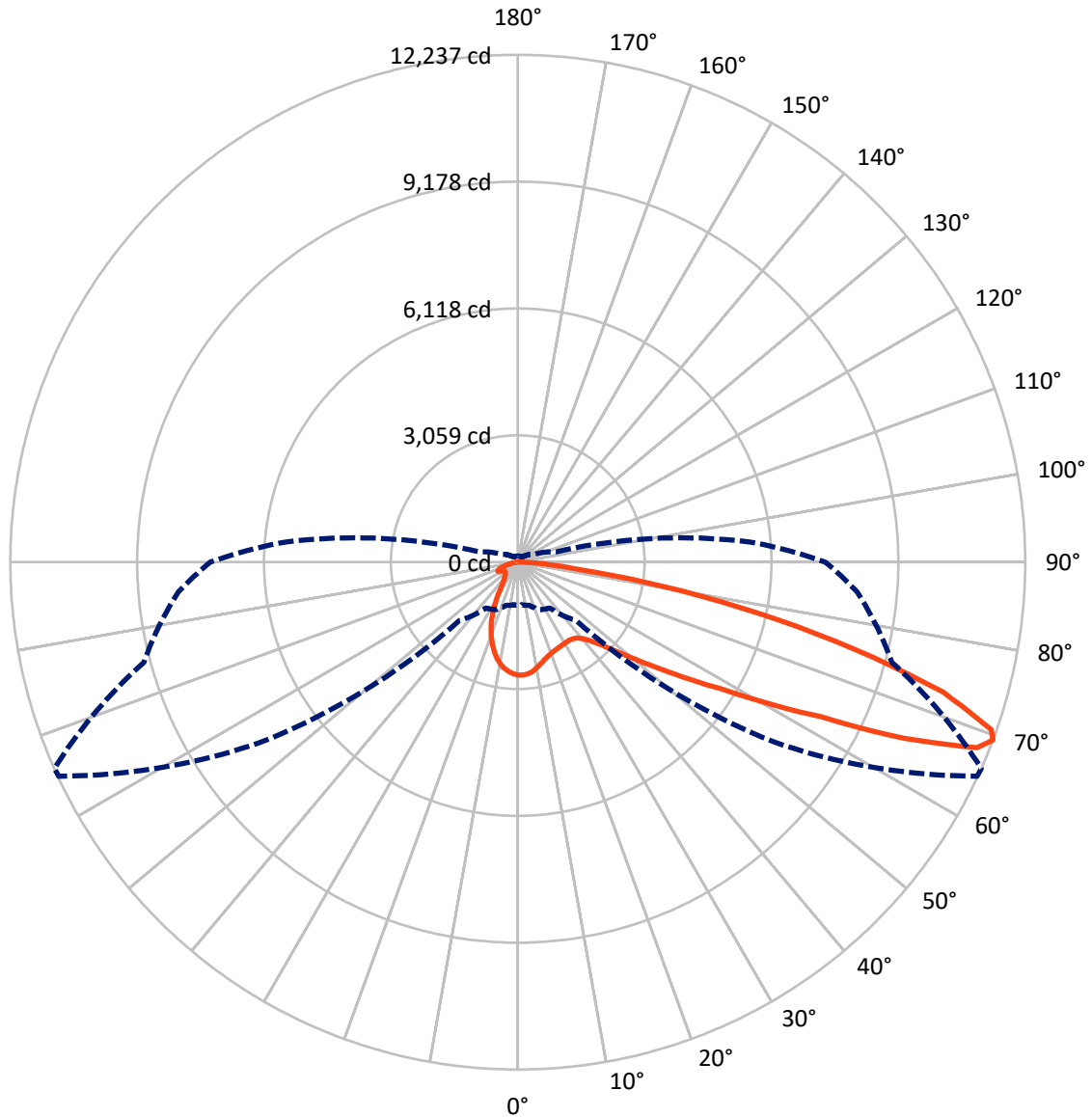
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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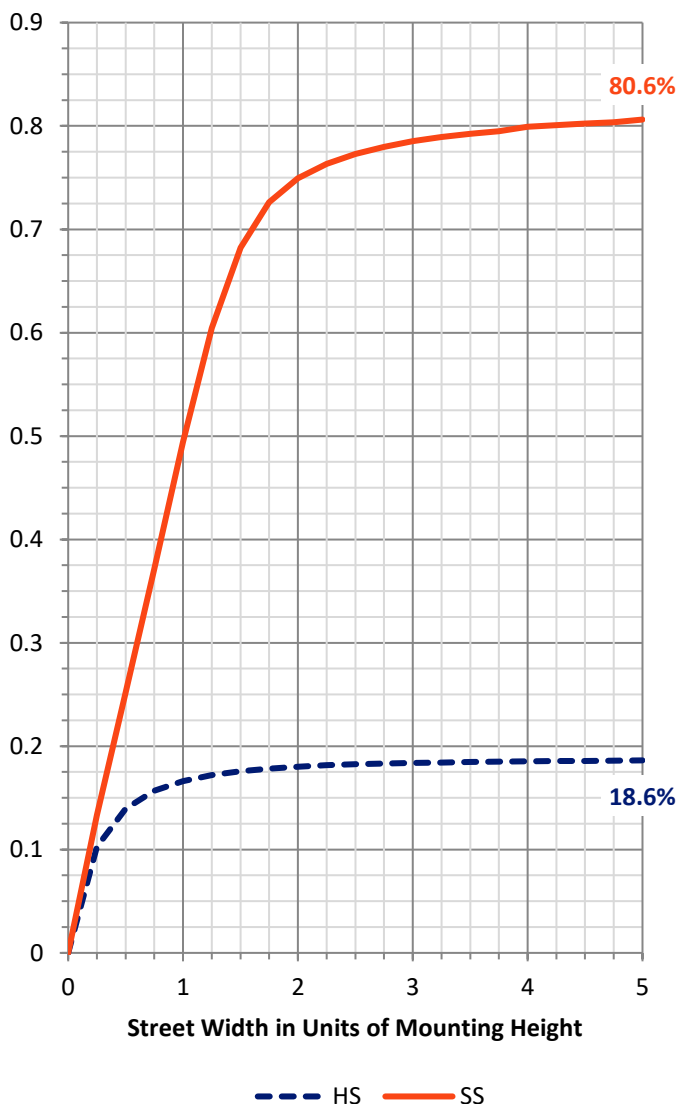
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2219.5	0.0	2219.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9582.5	0.0	9582.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	11802.0	0.0	11802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.7	2.0
10°-20°	561.4	4.8
20°-30°	764.2	6.5
30°-40°	1027.0	8.7
40°-50°	1533.4	13.0
50°-60°	2439.2	20.7
60°-70°	3000.0	25.4
70°-80°	1952.0	16.5
80°-90°	288.2	2.4
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°	11802.0	100.0
0°-180°	11802.0	100.0

Coefficient of Utilization



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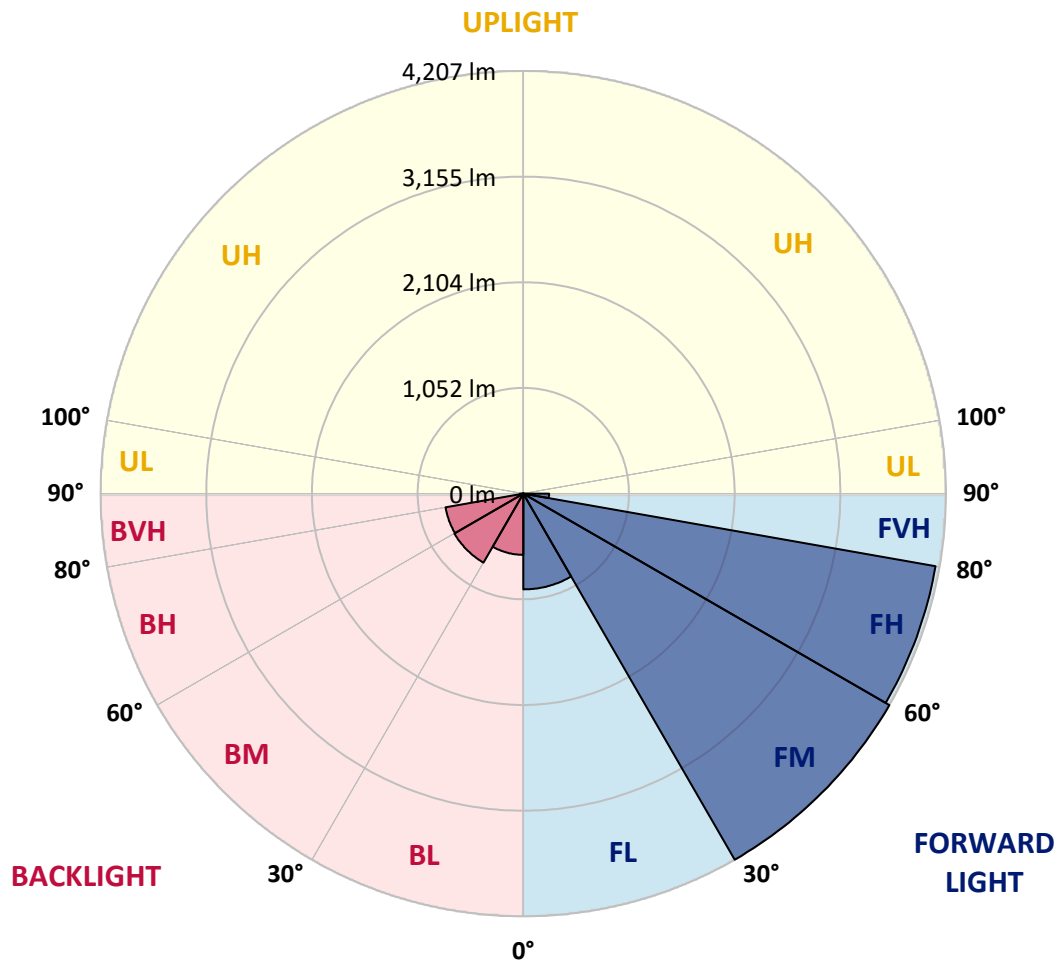
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	953.0	8.1			
FM	(30°-60°)	4207.1	35.6			
FH	(60°-80°)	4166.2	35.3			G2/5000
FVH	(80°-90°)	256.3	2.2			G3/500
BL	(0°-30°)	609.3	5.2	B2/1000		
BM	(30°-60°)	792.5	6.7	B1/1000		
BH	(60°-80°)	785.8	6.7	B2/1000		G2/1000
BVH	(80°-90°)	32.0	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4
2.5°	2630.0	2640.4	2652.2	2665.3	2690.1	2703.8	2713.6	2724.8	2726.1	2731.9	2727.4
5°	2435.9	2448.3	2465.9	2490.8	2528.0	2586.2	2646.3	2695.3	2701.2	2728.7	2736.5
7.5°	2273.8	2281.0	2295.4	2335.2	2388.2	2452.9	2540.4	2639.8	2654.2	2719.5	2742.4
10°	2141.8	2149.0	2165.9	2207.1	2259.4	2340.5	2436.5	2567.2	2579.0	2691.4	2743.7
12.5°	2043.1	2049.6	2067.9	2108.4	2168.6	2244.4	2350.3	2488.8	2505.8	2654.2	2731.3
15°	1967.9	1980.3	1995.4	2028.7	2092.1	2165.3	2267.9	2416.9	2430.6	2615.0	2722.8
17.5°	1935.9	1941.8	1952.2	1982.9	2029.4	2101.2	2204.5	2360.7	2377.1	2587.5	2720.8
20°	1937.2	1943.1	1945.0	1962.0	1995.4	2057.5	2159.4	2316.3	2335.9	2563.3	2724.1
22.5°	1981.6	1982.3	1975.1	1969.2	1982.3	2033.9	2127.4	2282.9	2305.8	2552.9	2726.7
25°	2050.3	2062.0	2051.6	2024.1	1999.9	2024.8	2115.0	2264.6	2286.2	2537.8	2723.4
27.5°	2161.4	2163.3	2154.8	2117.6	2054.8	2036.5	2109.7	2250.9	2269.2	2526.7	2707.1
30°	2310.4	2304.5	2296.7	2255.5	2156.8	2081.6	2120.9	2238.5	2257.4	2510.4	2687.5
32.5°	2461.4	2479.7	2472.5	2424.1	2296.0	2169.2	2156.8	2237.2	2252.9	2498.0	2665.9
35°	2621.5	2630.0	2664.0	2639.1	2507.8	2311.0	2224.1	2257.4	2269.9	2498.6	2650.9
37.5°	2747.0	2769.9	2849.6	2871.2	2747.6	2498.6	2333.3	2315.0	2320.2	2530.6	2656.8
40°	2898.6	2937.8	3040.4	3128.7	3047.6	2742.4	2518.9	2421.5	2428.0	2607.8	2695.3
42.5°	3090.8	3118.2	3256.1	3375.7	3362.6	3064.6	2743.7	2596.0	2599.3	2761.4	2803.2
45°	3315.6	3354.8	3509.7	3689.4	3720.2	3429.3	3068.5	2860.0	2858.1	2999.9	3004.5
47.5°	3603.2	3627.3	3780.9	3977.0	4101.2	3887.5	3462.6	3239.1	3218.2	3347.6	3310.4
50°	3867.9	3905.8	4022.1	4236.5	4545.6	4424.1	3980.9	3730.6	3681.6	3802.5	3739.8
52.5°	3979.0	4018.8	4116.9	4382.9	4926.7	5118.1	4639.1	4316.9	4235.2	4328.0	4305.1
55°	3786.2	3837.8	3929.3	4252.8	5094.0	5918.8	5526.6	4994.6	4935.1	4895.3	4901.8
57.5°	3267.9	3316.9	3440.4	3797.3	4894.0	6499.8	6793.9	5865.8	5738.4	5554.7	5586.1
60°	2487.5	2518.2	2582.3	2977.7	4301.2	6650.8	8233.1	6967.1	6886.1	6211.6	6233.8
62.5°	1766.6	1801.3	1845.7	2043.1	3148.9	6225.3	9359.9	8505.0	8215.4	6892.0	6870.4
65°	1434.6	1411.1	1464.7	1556.8	1847.7	4824.7	9613.4	10639.6	10240.9	7788.0	7488.7
67.5°	1179.7	1154.9	1207.8	1371.9	1405.2	2800.6	8699.7	12025.1	11945.4	8762.5	8116.8
69°	1044.4	1031.3	1077.7	1264.7	1349.0	1988.8	7578.9	12217.9	12236.9	9337.0	8213.5
70°	941.1	946.4	991.5	1210.4	1323.5	1639.8	6477.6	11951.9	12112.7	9623.9	8108.9
72.5°	692.8	703.9	766.6	1002.6	1299.3	1391.5	3854.8	10439.6	10723.9	9640.9	7418.1
75°	484.3	479.1	534.6	754.9	1227.4	1379.0	2264.0	8073.6	8395.8	8333.1	6233.1
77.5°	317.0	325.5	369.9	533.3	1032.6	1368.6	1475.8	5727.9	5937.1	5573.0	3686.8
80°	223.5	222.9	247.7	364.0	766.0	1315.0	1208.5	3610.4	3557.4	2190.1	1093.4
82.5°	128.1	137.3	166.0	256.2	512.4	1157.5	1111.7	1726.7	1576.4	624.2	369.3
85°	71.2	74.5	98.7	154.9	299.3	871.9	970.6	785.6	741.2	260.8	158.8
87.5°	22.9	24.8	41.2	78.4	135.9	411.8	549.7	362.7	334.6	94.1	64.1
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°	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4
2.5°	2729.3	2737.2	2716.3	2696.0	2677.7	2652.2	2629.3	2610.4	2597.3	2595.3	2588.8
5°	2738.5	2739.1	2699.3	2645.7	2593.4	2535.9	2476.4	2433.9	2394.0	2371.8	2360.7
7.5°	2745.0	2739.1	2667.2	2580.3	2479.7	2375.1	2270.5	2186.9	2122.2	2096.7	2106.5
10°	2742.4	2724.1	2618.9	2479.7	2333.3	2177.1	2026.7	1909.1	1801.3	1745.7	1747.0
12.5°	2728.0	2698.0	2547.0	2366.6	2151.6	1942.4	1712.4	1553.5	1428.7	1354.9	1332.0
15°	2715.6	2663.3	2462.7	2213.0	1945.7	1647.0	1366.6	1170.6	1066.0	1007.8	1007.2
17.5°	2702.5	2630.0	2370.5	2050.3	1709.1	1324.8	1030.7	881.0	832.0	837.9	828.1
20°	2688.8	2590.8	2274.4	1869.2	1420.9	988.2	771.9	711.1	724.8	751.6	755.5
22.5°	2673.1	2548.9	2171.2	1669.9	1117.6	743.8	626.1	617.0	652.3	694.1	700.0
25°	2648.9	2496.7	2041.1	1461.4	862.1	599.3	548.3	554.9	589.5	624.8	628.7
27.5°	2615.0	2432.0	1909.7	1201.3	647.7	514.4	501.3	509.8	526.8	548.3	553.6
30°	2569.2	2358.8	1758.8	976.4	518.9	471.9	466.7	471.2	481.0	490.2	492.8
32.5°	2523.5	2288.2	1606.5	747.7	462.7	443.8	438.5	438.5	438.5	439.9	440.5
35°	2481.0	2221.5	1443.1	582.3	433.3	421.6	414.4	406.5	405.2	400.6	400.6
37.5°	2457.4	2160.7	1269.2	487.6	411.8	403.3	393.5	380.4	373.2	373.8	372.5
40°	2462.0	2120.9	1111.1	434.0	394.1	385.0	369.9	354.9	350.3	350.3	349.0
42.5°	2513.7	2107.8	959.4	405.9	377.1	366.7	347.7	334.0	331.4	330.7	332.0
45°	2632.6	2139.8	823.5	387.6	362.7	347.0	328.1	315.7	313.1	313.1	312.4
47.5°	2864.6	2243.7	726.1	375.8	352.3	332.0	312.4	300.0	295.4	294.1	294.1
50°	3225.4	2469.2	653.6	365.3	339.2	318.3	298.0	283.7	276.5	275.8	275.2
52.5°	3726.7	2820.8	625.5	357.5	324.8	303.9	281.7	268.0	258.8	256.9	255.5
55°	4312.9	3311.7	664.0	351.6	309.8	287.6	264.7	250.3	241.8	237.9	237.2
57.5°	4992.0	3901.2	810.4	343.8	296.1	269.9	247.7	233.3	224.2	219.6	218.3
60°	5601.8	4507.1	1066.0	339.2	284.3	251.0	228.1	215.0	206.5	202.0	201.3
62.5°	6271.7	5084.8	1371.2	351.6	279.1	232.7	209.8	198.0	190.8	186.3	186.3
65°	6987.4	5663.2	1573.2	393.5	286.9	218.3	190.2	180.4	173.9	170.6	169.9
67.5°	7469.7	5863.2	1296.0	436.6	306.5	202.6	171.2	163.4	159.5	156.2	156.2
69°	7417.4	5610.3	956.2	447.7	312.4	194.8	160.8	154.9	149.7	148.4	147.1
70°	7252.1	5322.1	801.3	440.5	307.8	187.6	154.2	147.1	142.5	141.2	140.5
72.5°	6459.3	4615.5	596.7	383.0	262.1	162.7	136.6	130.1	126.1	124.2	124.2
75°	5366.5	3772.4	466.0	304.6	205.2	137.3	117.0	111.8	108.5	107.2	106.5
77.5°	3007.8	2106.5	334.6	238.6	155.6	111.1	98.0	93.5	90.2	88.9	88.9
80°	837.9	601.9	196.7	157.5	105.9	84.3	77.8	74.5	69.9	66.7	68.6
82.5°	315.7	260.8	112.4	94.8	67.3	56.2	54.2	51.6	49.7	45.1	45.1
85°	153.6	126.8	71.9	50.3	37.3	29.4	28.1	26.8	25.5	22.2	22.9
87.5°	52.9	56.2	31.4	18.3	11.1	7.2	5.9	3.3	3.3	3.3	3.3
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)