

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: P452053

Luminaire Tested: **GALN-SA3A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452053
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-SA3A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 11396 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

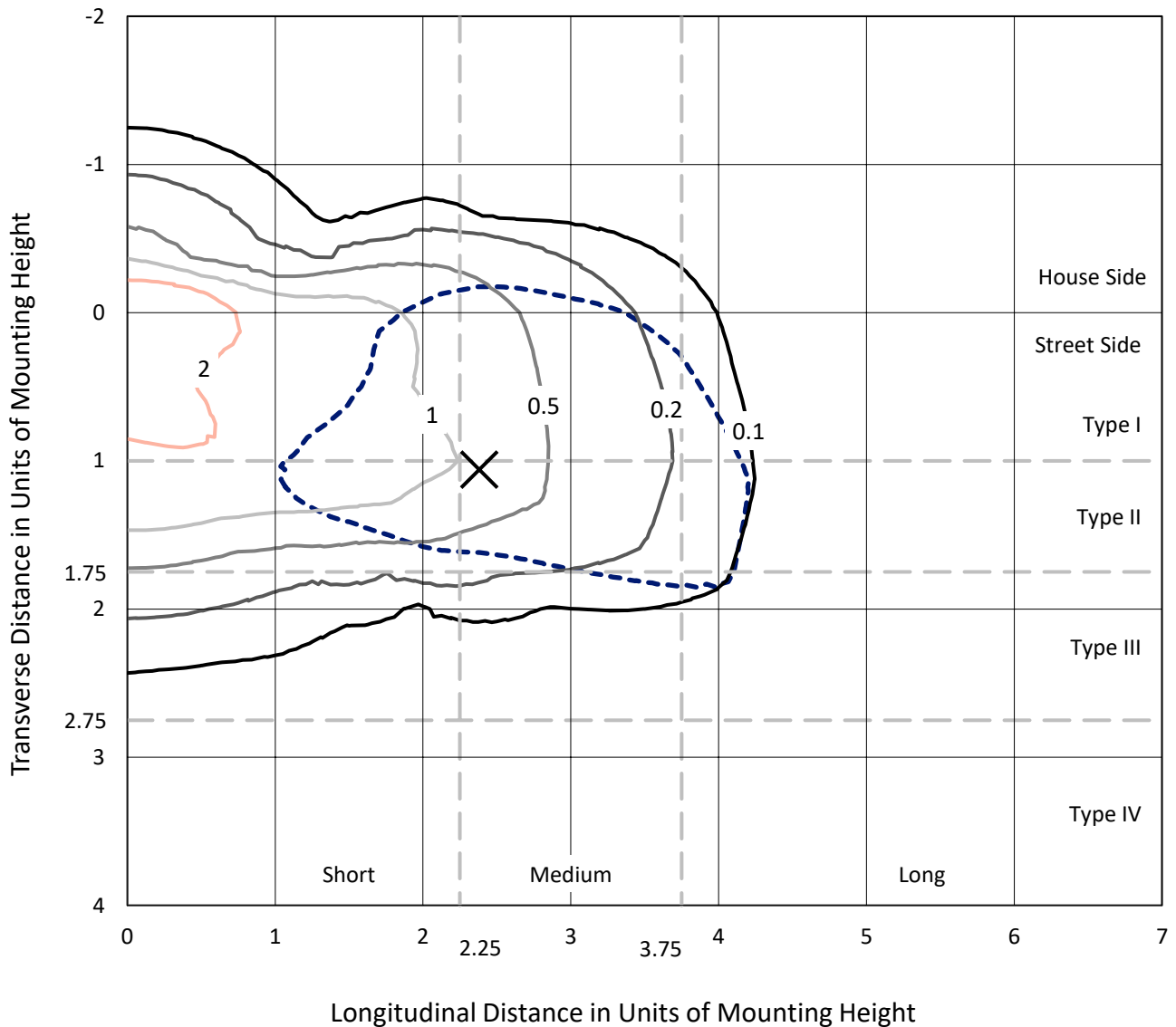
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

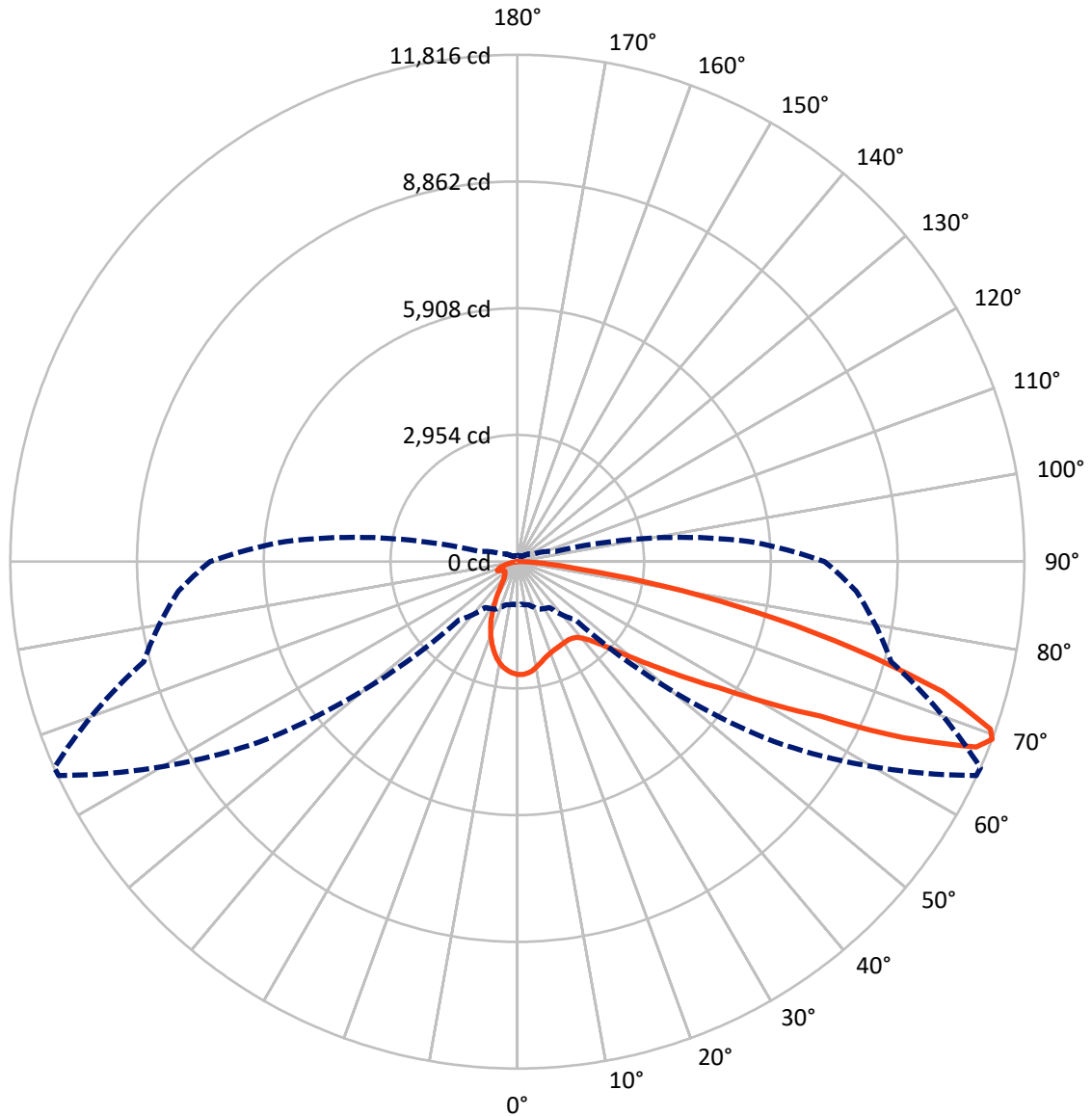
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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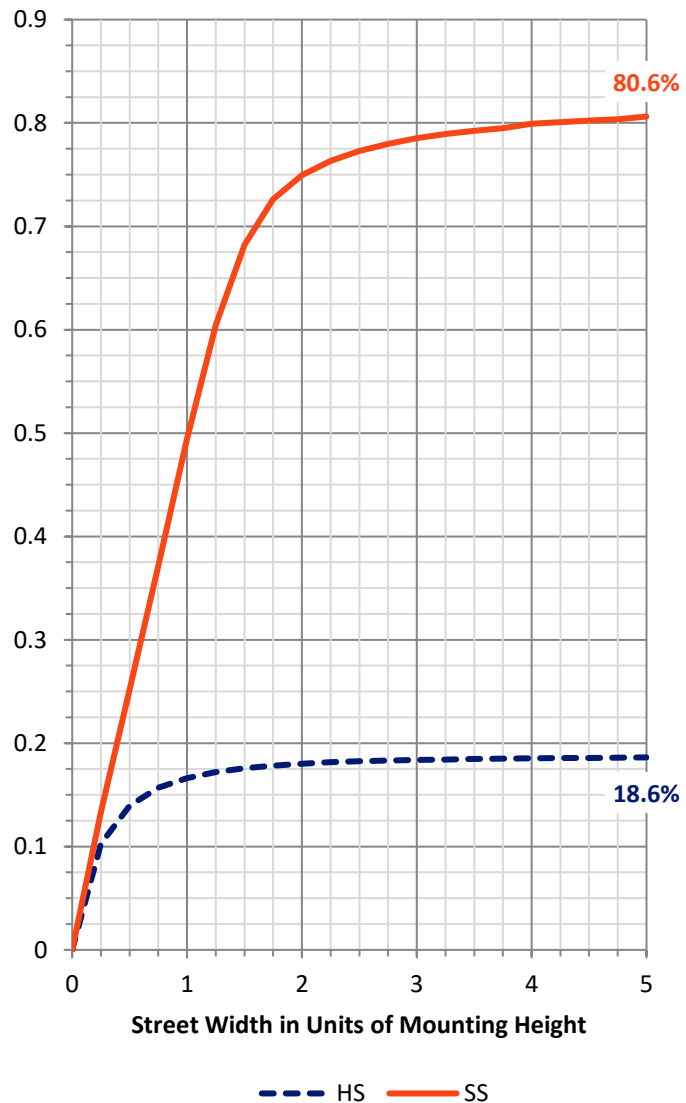
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2143.2	0.0	2143.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9252.8	0.0	9252.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	11396.0	0.0	11396.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	2.0
10°-20°	542.1	4.8
20°-30°	737.9	6.5
30°-40°	991.6	8.7
40°-50°	1480.7	13.0
50°-60°	2355.2	20.7
60°-70°	2896.8	25.4
70°-80°	1884.8	16.5
80°-90°	278.3	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°	11396.0	100.0
0°-180°	11396.0	100.0



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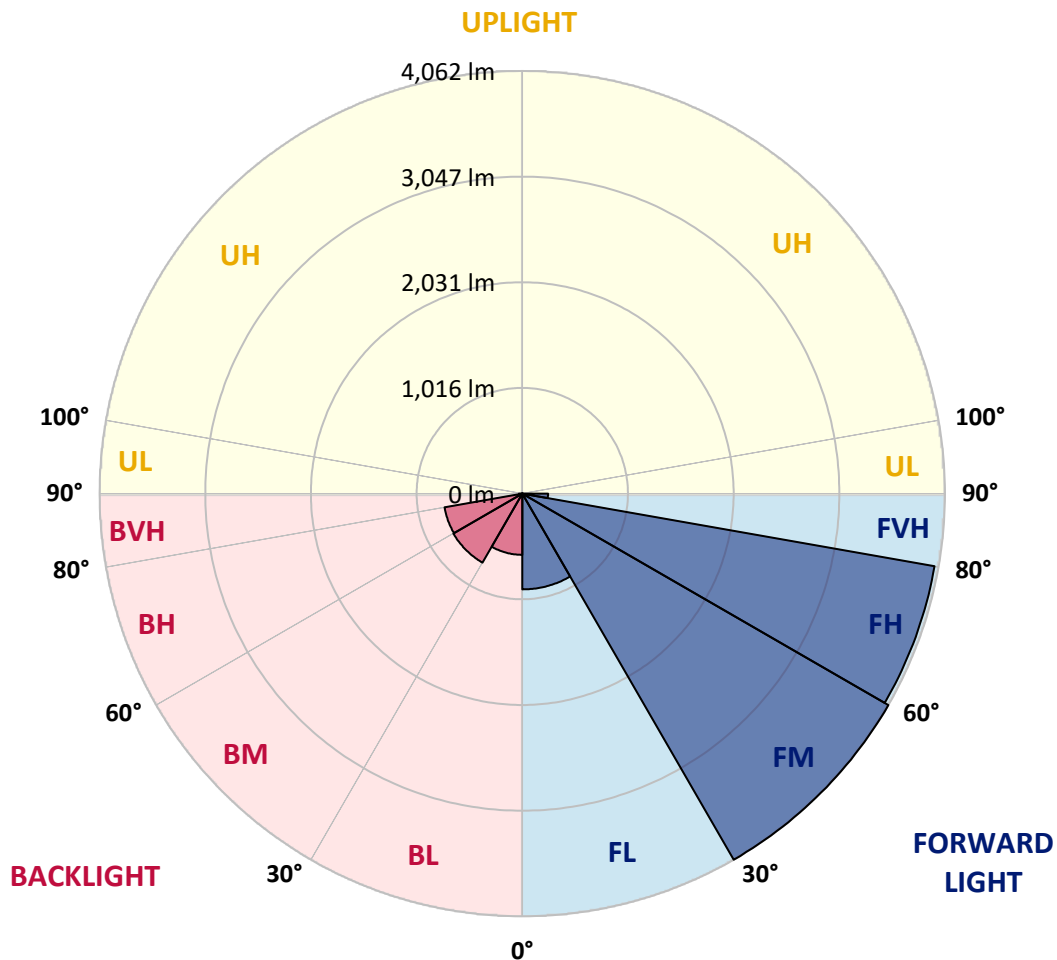
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	920.2	8.1			
FM	(30°-60°)	4062.3	35.6			
FH	(60°-80°)	4022.8	35.3			G2/5000
FVH	(80°-90°)	247.5	2.2			G3/500
BL	(0°-30°)	588.3	5.2	B2/1000		
BM	(30°-60°)	765.2	6.7	B1/1000		
BH	(60°-80°)	758.8	6.7	B2/1000		G2/1000
BVH	(80°-90°)	30.9	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°	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7
2.5°	2539.5	2549.6	2561.0	2573.6	2597.6	2610.8	2620.3	2631.0	2632.3	2638.0	2633.5
5°	2352.1	2364.1	2381.1	2405.1	2441.1	2497.2	2555.3	2602.6	2608.3	2634.8	2642.4
7.5°	2195.6	2202.5	2216.4	2254.9	2306.0	2368.5	2453.1	2549.0	2562.9	2626.0	2648.1
10°	2068.1	2075.0	2091.4	2131.2	2181.7	2259.9	2352.7	2478.9	2490.3	2598.8	2649.3
12.5°	1972.8	1979.1	1996.8	2035.9	2094.0	2167.2	2269.4	2403.2	2419.6	2562.9	2637.3
15°	1900.2	1912.2	1926.7	1958.9	2020.1	2090.8	2189.9	2333.8	2347.0	2525.0	2629.1
17.5°	1869.3	1875.0	1885.1	1914.7	1959.5	2029.0	2128.7	2279.5	2295.3	2498.5	2627.2
20°	1870.6	1876.2	1878.1	1894.5	1926.7	1986.7	2085.1	2236.6	2255.5	2475.1	2630.4
22.5°	1913.5	1914.1	1907.2	1901.5	1914.1	1964.0	2054.2	2204.4	2226.5	2465.0	2632.9
25°	1979.7	1991.1	1981.0	1954.5	1931.1	1955.1	2042.2	2186.7	2207.6	2450.5	2629.8
27.5°	2087.0	2088.9	2080.7	2044.7	1984.2	1966.5	2037.2	2173.5	2191.2	2439.8	2614.0
30°	2230.9	2225.2	2217.7	2177.9	2082.6	2010.0	2047.9	2161.5	2179.8	2424.0	2595.0
32.5°	2376.7	2394.4	2387.4	2340.7	2217.0	2094.6	2082.6	2160.2	2175.4	2412.0	2574.2
35°	2531.3	2539.5	2572.3	2548.3	2421.5	2231.5	2147.6	2179.8	2191.8	2412.7	2559.7
37.5°	2652.5	2674.6	2751.6	2772.4	2653.1	2412.7	2253.0	2235.3	2240.4	2443.6	2565.4
40°	2798.9	2836.8	2935.8	3021.0	2942.8	2648.1	2432.2	2338.2	2344.5	2518.1	2602.6
42.5°	2984.4	3010.9	3144.1	3259.6	3247.0	2959.2	2649.3	2506.7	2509.9	2666.4	2706.8
45°	3201.5	3239.4	3389.0	3562.5	3592.2	3311.3	2963.0	2761.7	2759.8	2896.7	2901.1
47.5°	3479.2	3502.6	3650.9	3840.2	3960.1	3753.7	3343.5	3127.7	3107.5	3232.5	3196.5
50°	3734.8	3771.4	3883.7	4090.7	4389.2	4271.9	3844.0	3602.3	3554.9	3671.7	3611.1
52.5°	3842.1	3880.6	3975.2	4232.1	4757.2	4942.1	4479.5	4168.4	4089.5	4179.1	4157.0
55°	3655.9	3705.8	3794.1	4106.5	4918.7	5715.2	5336.5	4822.8	4765.4	4726.9	4733.2
57.5°	3155.5	3202.8	3322.1	3666.6	4725.6	6276.2	6560.2	5664.0	5541.0	5363.6	5393.9
60°	2401.9	2431.6	2493.4	2875.3	4153.2	6422.0	7949.9	6727.4	6649.2	5997.9	6019.4
62.5°	1705.8	1739.3	1782.2	1972.8	3040.6	6011.1	9037.9	8212.4	7932.8	6654.9	6634.0
65°	1385.2	1362.5	1414.3	1503.3	1784.1	4658.7	9282.7	10273.5	9888.6	7520.1	7231.1
67.5°	1139.1	1115.1	1166.3	1324.7	1356.8	2704.2	8400.5	11611.5	11534.5	8461.0	7837.5
69°	1008.5	995.9	1040.7	1221.2	1302.6	1920.4	7318.1	11797.6	11815.9	9015.8	7930.9
70°	908.8	913.8	957.4	1168.8	1278.0	1583.4	6254.8	11540.8	11696.0	9292.8	7830.0
72.5°	669.0	679.7	740.3	968.1	1254.6	1343.6	3722.2	10080.4	10355.0	9309.2	7162.9
75°	467.6	462.6	516.2	728.9	1185.2	1331.6	2186.1	7795.9	8107.0	8046.4	6018.7
77.5°	306.1	314.3	357.2	515.0	997.1	1321.5	1425.0	5530.9	5732.8	5381.3	3560.0
80°	215.8	215.2	239.2	351.5	739.6	1269.8	1166.9	3486.2	3435.0	2114.8	1055.8
82.5°	123.7	132.5	160.3	247.4	494.8	1117.7	1073.5	1667.3	1522.2	602.7	356.6
85°	68.8	71.9	95.3	149.6	289.0	841.9	937.2	758.6	715.7	251.8	153.4
87.5°	22.1	24.0	39.8	75.7	131.3	397.6	530.7	350.3	323.1	90.9	61.8
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°	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7	2631.7
2.5°	2635.4	2643.0	2622.8	2603.3	2585.6	2561.0	2538.9	2520.6	2508.0	2506.1	2499.8
5°	2644.3	2644.9	2606.4	2554.7	2504.2	2448.6	2391.2	2350.2	2311.7	2290.2	2279.5
7.5°	2650.6	2644.9	2575.5	2491.6	2394.4	2293.4	2192.4	2111.6	2049.2	2024.5	2034.0
10°	2648.1	2630.4	2528.8	2394.4	2253.0	2102.2	1957.0	1843.4	1739.3	1685.6	1686.9
12.5°	2634.2	2605.1	2459.4	2285.2	2077.6	1875.6	1653.5	1500.1	1379.6	1308.3	1286.2
15°	2622.2	2571.7	2378.0	2136.9	1878.8	1590.4	1319.6	1130.3	1029.3	973.1	972.5
17.5°	2609.6	2539.5	2289.0	1979.7	1650.3	1279.2	995.2	850.7	803.4	809.1	799.6
20°	2596.3	2501.6	2196.2	1804.9	1372.0	954.2	745.3	686.6	699.9	725.8	729.5
22.5°	2581.2	2461.3	2096.5	1612.4	1079.2	718.2	604.6	595.8	629.8	670.2	675.9
25°	2557.8	2410.8	1970.9	1411.1	832.4	578.7	529.5	535.8	569.2	603.3	607.1
27.5°	2525.0	2348.3	1844.1	1159.9	625.4	496.7	484.0	492.3	508.7	529.5	534.5
30°	2480.8	2277.6	1698.3	942.9	501.1	455.6	450.6	455.0	464.5	473.3	475.8
32.5°	2436.6	2209.5	1551.2	722.0	446.8	428.5	423.5	423.5	423.5	424.7	425.4
35°	2395.6	2145.1	1393.5	562.3	418.4	407.1	400.1	392.5	391.3	386.9	386.9
37.5°	2372.9	2086.4	1225.6	470.8	397.6	389.4	379.9	367.3	360.4	361.0	359.7
40°	2377.3	2047.9	1072.9	419.0	380.5	371.7	357.2	342.7	338.3	338.3	337.0
42.5°	2427.2	2035.3	926.4	391.9	364.1	354.0	335.7	322.5	320.0	319.3	320.6
45°	2542.0	2066.2	795.2	374.2	350.3	335.1	316.8	304.8	302.3	302.3	301.7
47.5°	2766.1	2166.5	701.1	362.9	340.2	320.6	301.7	289.7	285.3	284.0	284.0
50°	3114.4	2384.3	631.1	352.8	327.5	307.3	287.8	273.9	267.0	266.3	265.7
52.5°	3598.5	2723.8	604.0	345.2	313.7	293.5	272.0	258.7	249.9	248.0	246.8
55°	4164.6	3197.7	641.2	339.5	299.1	277.7	255.6	241.7	233.5	229.7	229.1
57.5°	4820.3	3767.0	782.6	332.0	285.9	260.6	239.2	225.3	216.5	212.0	210.8
60°	5409.1	4352.0	1029.3	327.5	274.5	242.3	220.3	207.6	199.4	195.0	194.4
62.5°	6056.0	4909.9	1324.0	339.5	269.5	224.7	202.6	191.2	184.3	179.9	179.9
65°	6747.0	5468.4	1519.0	379.9	277.0	210.8	183.6	174.2	167.9	164.7	164.1
67.5°	7212.7	5661.5	1251.5	421.6	296.0	195.6	165.3	157.8	154.0	150.8	150.8
69°	7162.3	5417.3	923.3	432.3	301.7	188.1	155.2	149.6	144.5	143.3	142.0
70°	7002.6	5139.0	773.7	425.4	297.2	181.1	148.9	142.0	137.6	136.3	135.7
72.5°	6237.1	4456.8	576.2	369.8	253.1	157.1	131.9	125.6	121.8	119.9	119.9
75°	5181.9	3642.7	450.0	294.1	198.2	132.5	113.0	107.9	104.8	103.5	102.9
77.5°	2904.3	2034.0	323.1	230.3	150.2	107.3	94.7	90.2	87.1	85.8	85.8
80°	809.1	581.2	190.0	152.1	102.2	81.4	75.1	71.9	67.5	64.4	66.3
82.5°	304.8	251.8	108.5	91.5	65.0	54.3	52.4	49.9	48.0	43.5	43.5
85°	148.3	122.4	69.4	48.6	36.0	28.4	27.1	25.9	24.6	21.5	22.1
87.5°	51.1	54.3	30.3	17.7	10.7	6.9	5.7	3.2	3.2	3.2	3.2
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)