

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: P451693

Luminaire Tested: **GALN-SA2C-750-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451693
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-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 14468 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

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

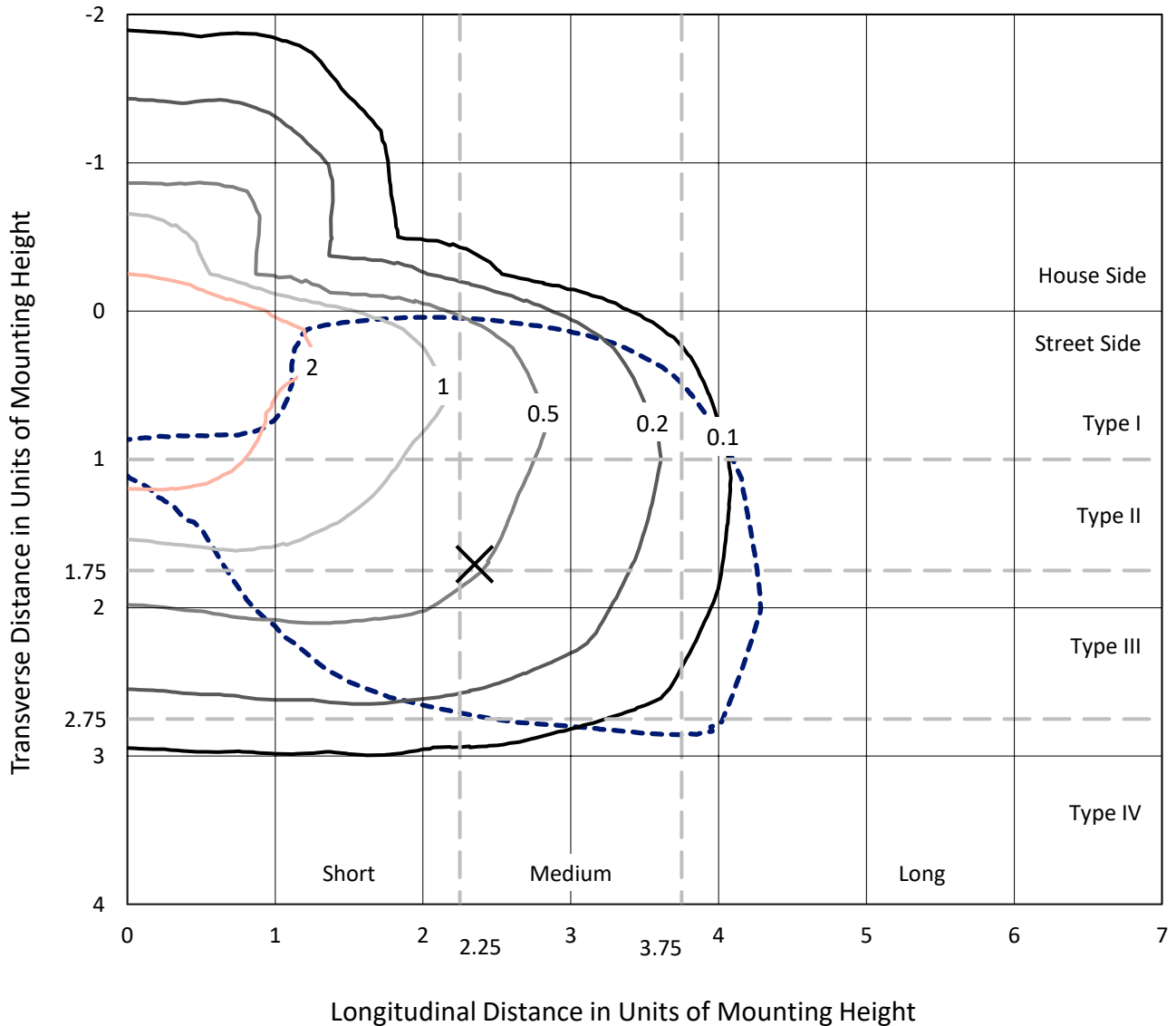




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Iso-Footcandle Lines of Horizontal Illumination

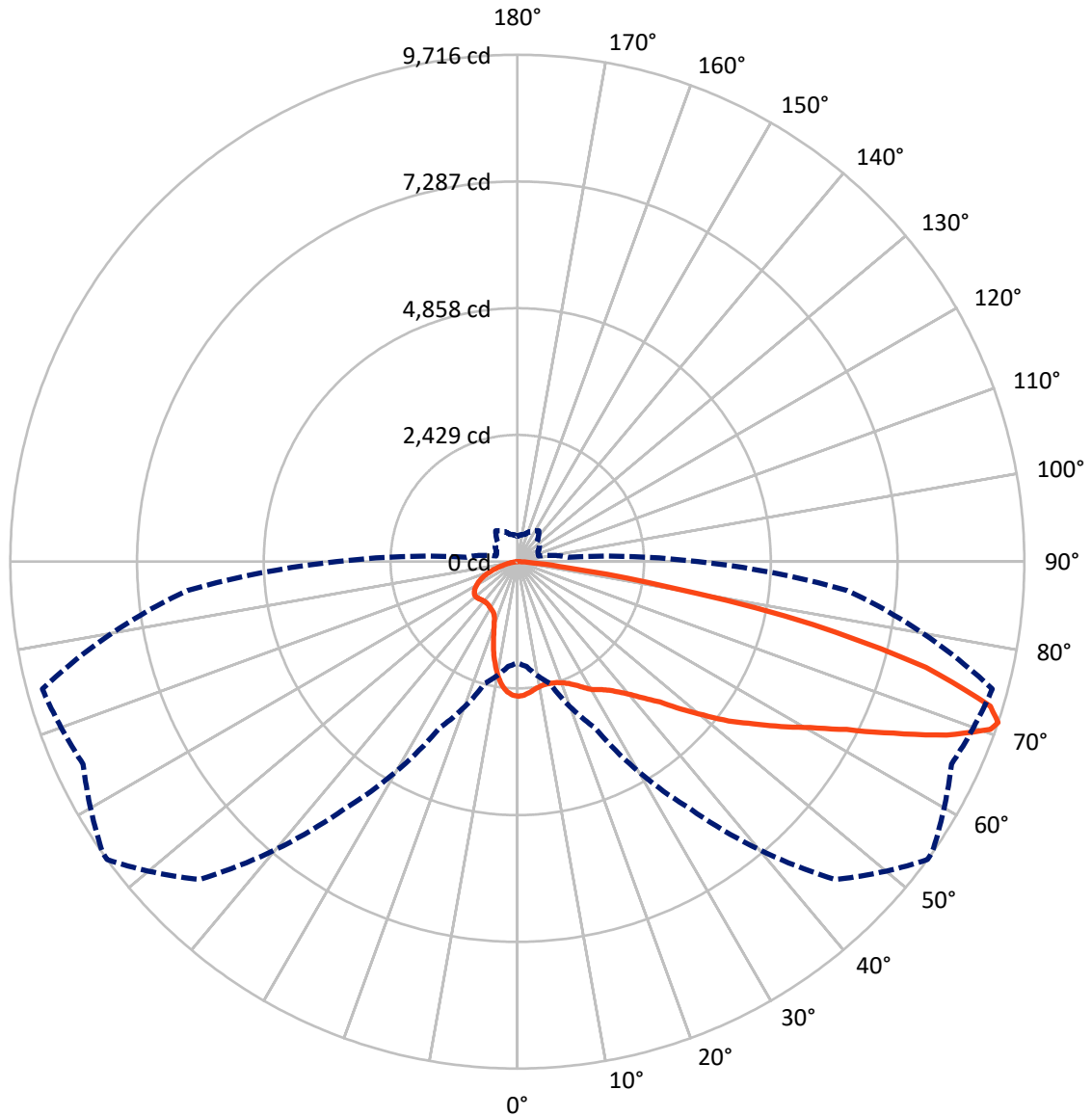
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type 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	2612.1	0.0	2612.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11855.9	0.0	11855.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	14468.0	0.0	14468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	1.6
10°-20°	607.4	4.2
20°-30°	1011.4	7.0
30°-40°	1495.5	10.3
40°-50°	2106.4	14.6
50°-60°	2820.6	19.5
60°-70°	3555.1	24.6
70°-80°	2428.1	16.8
80°-90°	213.5	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°	14468.0	100.0
0°-180°	14468.0	100.0

Coefficient of Utilization



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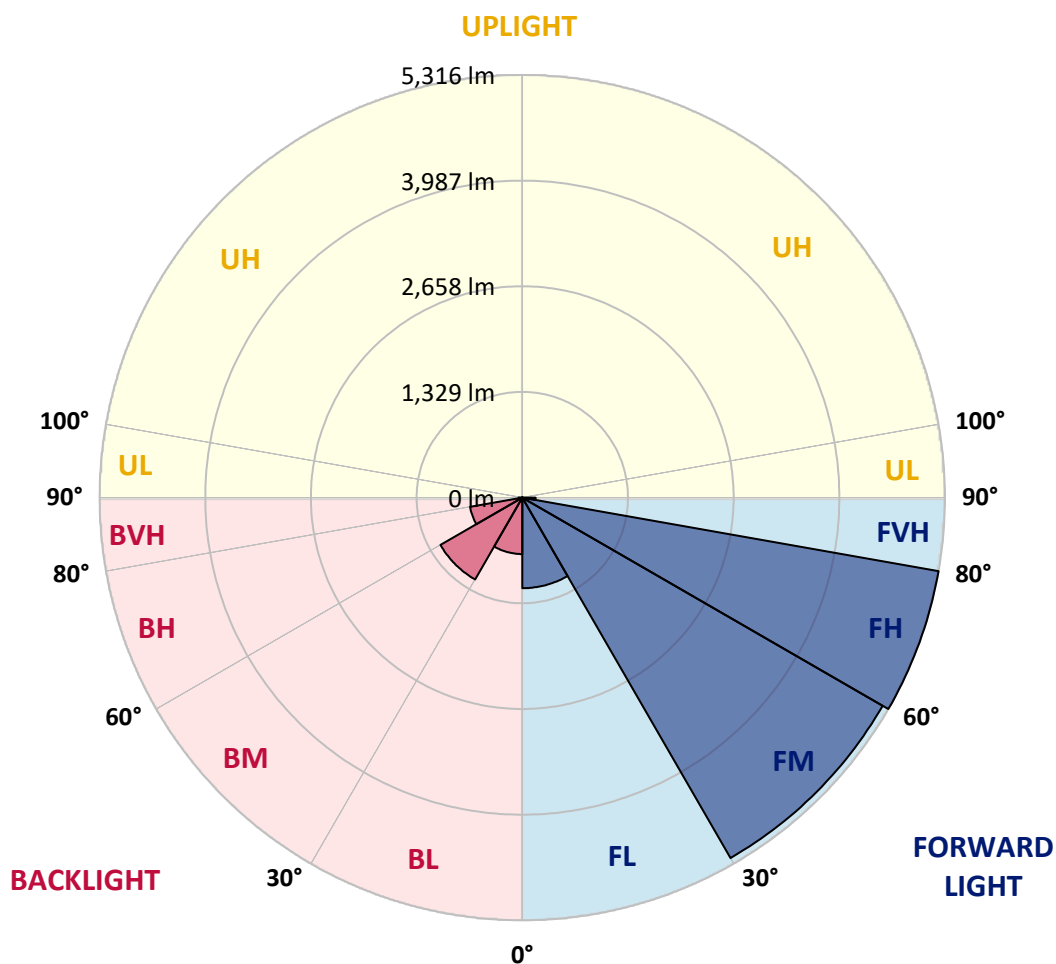
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1138.9	7.9			
FM	(30°-60°)	5234.0	36.2			
FH	(60°-80°)	5316.1	36.7			G3/7500
FVH	(80°-90°)	166.9	1.2			G2/225
BL	(0°-30°)	709.9	4.9	B2/1000		
BM	(30°-60°)	1188.4	8.2	B2/2500		
BH	(60°-80°)	667.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	46.6	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3
2.5°	2493.8	2505.5	2508.6	2516.4	2532.9	2546.1	2559.4	2557.9	2576.6	2584.4	2591.5
5°	2382.8	2385.9	2397.7	2413.3	2442.2	2478.9	2514.9	2515.7	2561.8	2598.5	2616.5
7.5°	2301.5	2311.7	2319.5	2335.9	2366.4	2406.2	2463.3	2468.0	2550.0	2622.7	2661.0
10°	2248.4	2260.1	2268.7	2289.0	2319.5	2364.0	2425.8	2434.4	2541.4	2661.0	2728.2
12.5°	2199.9	2211.7	2219.5	2246.0	2285.9	2340.6	2410.2	2420.3	2544.6	2705.6	2801.7
15°	2229.6	2239.0	2235.9	2243.7	2270.3	2332.8	2416.4	2426.6	2556.3	2748.5	2874.4
17.5°	2361.7	2369.5	2343.7	2314.0	2301.5	2347.6	2435.9	2446.9	2579.7	2793.1	2948.6
20°	2556.3	2577.4	2521.1	2454.7	2394.5	2400.8	2476.6	2488.3	2612.6	2837.6	3024.4
22.5°	2809.5	2825.1	2756.4	2647.0	2536.0	2478.9	2537.5	2544.6	2661.8	2895.5	3107.3
25°	3107.3	3116.6	3021.3	2880.6	2720.4	2612.6	2621.2	2633.7	2743.1	2961.1	3180.7
27.5°	3396.4	3426.1	3315.9	3144.0	2933.0	2753.2	2736.0	2743.9	2831.4	2997.8	3231.5
30°	3739.5	3737.1	3620.7	3421.4	3151.0	2906.4	2844.7	2843.1	2879.1	3015.8	3268.2
32.5°	4013.0	4045.1	3931.0	3713.7	3400.3	3065.1	2919.7	2916.6	2915.8	3047.1	3323.0
35°	4324.1	4328.7	4224.0	4005.2	3669.9	3264.3	3024.4	3008.8	2990.8	3114.3	3397.2
37.5°	4602.3	4624.2	4528.0	4282.6	3934.9	3471.4	3168.2	3158.1	3103.3	3230.7	3516.0
40°	4819.5	4835.9	4778.1	4544.4	4195.9	3694.9	3351.1	3332.3	3265.9	3421.4	3674.6
42.5°	4890.6	4924.3	4946.9	4832.0	4496.0	3959.9	3576.2	3552.7	3501.9	3710.6	3857.5
45°	4896.1	4949.3	5068.8	5074.3	4797.6	4277.2	3838.7	3822.3	3818.4	4081.0	4114.6
47.5°	4854.7	4908.6	5109.5	5218.1	5066.5	4597.6	4217.8	4192.0	4194.3	4539.0	4403.0
50°	4754.7	4818.7	5062.6	5310.3	5276.7	4930.5	4617.9	4609.3	4657.8	5061.8	4702.3
52.5°	4566.3	4643.7	5014.1	5368.1	5433.0	5217.3	5072.7	5048.5	5171.2	5629.2	5029.8
55°	4045.1	4161.5	4836.7	5400.2	5581.5	5491.6	5482.2	5526.0	5688.6	6248.1	5390.0
57.5°	3773.1	3860.6	4451.4	5405.7	5769.1	5810.5	5960.5	5971.5	6255.9	6905.4	5797.2
60°	3624.6	3702.0	4240.4	5369.7	6030.9	6205.1	6449.7	6488.8	6810.0	7617.3	6219.2
62.5°	3494.9	3561.3	4113.8	5245.5	6326.3	6790.5	7083.5	7102.3	7439.1	8403.5	6635.7
65°	3189.3	3265.1	3859.1	5121.2	6581.0	7522.0	7924.4	7902.6	8108.9	9081.8	6896.8
67.5°	2777.5	2873.6	3383.1	4692.1	6706.9	8321.4	8871.6	8844.3	8770.0	9526.5	6971.8
70°	2251.5	2303.1	2774.3	3950.5	6204.4	8741.1	9619.5	9590.6	9179.5	9585.1	6617.0
71°	1937.3	2017.8	2415.6	3508.9	5786.3	8612.9	9715.6	9707.8	9180.3	9423.4	6349.7
72.5°	1512.2	1561.4	1913.1	2718.9	4918.0	7884.6	9478.1	9507.8	8981.0	8974.0	5798.8
75°	956.6	978.4	1200.4	1600.5	2698.5	5583.8	8090.9	8171.4	7974.5	7345.3	4312.3
77.5°	555.6	583.8	719.0	943.3	1166.0	3030.7	5789.4	5876.9	5540.9	4044.3	1765.4
80°	323.5	354.8	473.6	547.8	535.3	1124.6	2947.8	3097.1	2399.2	1021.4	495.5
82.5°	179.7	200.8	332.9	333.7	285.2	367.3	927.6	970.6	684.6	411.9	202.4
85°	130.5	147.7	214.9	194.6	136.8	157.9	322.8	338.4	276.7	173.5	65.6
87.5°	46.1	65.6	118.0	93.8	37.5	32.8	93.0	75.8	70.3	48.5	14.8
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°	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3	2581.3
2.5°	2595.4	2596.9	2589.1	2575.1	2561.0	2543.0	2522.7	2507.1	2500.0	2499.2	2498.5
5°	2623.5	2627.4	2597.7	2554.0	2505.5	2446.1	2395.3	2337.5	2322.6	2299.2	2306.2
7.5°	2668.8	2666.5	2607.9	2514.9	2401.6	2275.7	2169.5	2107.7	2043.6	2025.7	2026.4
10°	2733.7	2718.9	2607.9	2435.2	2246.0	2059.3	1910.8	1817.0	1766.2	1724.0	1708.4
12.5°	2802.5	2765.0	2582.9	2323.4	2046.0	1817.0	1657.6	1531.0	1498.1	1463.8	1464.5
15°	2868.1	2805.6	2533.6	2166.3	1830.3	1558.3	1403.6	1327.8	1317.6	1321.5	1320.7
17.5°	2927.5	2834.5	2458.6	1991.3	1578.6	1336.4	1254.3	1259.8	1287.1	1306.7	1309.0
20°	2987.7	2851.7	2346.9	1756.8	1341.1	1202.0	1205.1	1248.1	1289.5	1316.1	1320.0
22.5°	3044.7	2859.5	2215.6	1530.2	1169.1	1144.9	1191.0	1237.1	1277.8	1303.5	1307.5
25°	3082.2	2841.5	2029.6	1293.4	1084.7	1124.6	1173.0	1212.1	1246.5	1273.1	1279.3
27.5°	3092.4	2783.7	1799.0	1101.9	1045.7	1105.0	1149.6	1178.5	1205.1	1230.1	1234.8
30°	3086.9	2698.5	1545.8	989.4	1023.0	1082.4	1116.8	1137.9	1169.9	1189.4	1193.4
32.5°	3078.3	2599.3	1281.7	929.2	1004.2	1061.3	1081.6	1100.4	1099.6	1091.8	1097.2
35°	3081.5	2480.5	1067.5	893.3	987.8	1045.7	1062.8	1039.4	972.2	969.1	965.9
37.5°	3097.9	2363.3	912.0	868.3	979.2	1043.3	1052.7	944.8	885.4	858.1	851.1
40°	3140.1	2226.5	809.6	849.5	978.4	1061.3	1006.6	897.2	783.1	729.9	726.0
42.5°	3196.3	2092.1	747.1	837.8	987.8	1088.6	987.8	830.0	705.7	674.4	669.7
45°	3280.0	1938.1	712.7	832.3	1001.9	1098.8	981.6	780.7	674.4	649.4	649.4
47.5°	3374.5	1791.2	694.0	828.4	1019.9	1091.8	926.1	765.1	659.6	662.7	677.6
50°	3468.3	1663.8	679.9	819.8	1035.5	1087.9	903.4	764.3	663.5	703.4	729.9
52.5°	3576.9	1573.9	662.7	805.7	1035.5	1062.8	896.4	779.9	674.4	686.2	697.9
55°	3708.2	1545.8	640.8	775.3	1016.7	1000.3	892.5	802.6	682.3	654.9	659.6
57.5°	3881.7	1591.1	619.7	737.0	973.8	935.5	890.9	808.9	664.3	641.6	636.9
60°	4083.4	1681.0	613.5	697.9	915.1	880.0	881.5	790.9	639.3	615.8	619.7
62.5°	4224.8	1734.9	609.6	668.2	851.1	819.0	858.9	769.0	628.3	608.0	611.9
65°	4224.8	1669.3	573.6	622.9	768.2	745.6	831.5	741.6	614.3	590.8	586.9
67.5°	4064.6	1477.8	518.9	554.9	676.8	661.9	793.2	708.8	593.2	575.2	565.8
70°	3647.3	1120.7	450.1	475.2	561.1	574.4	744.0	664.3	558.0	536.1	522.0
71°	3463.6	976.1	421.2	434.5	516.6	536.1	720.5	645.5	542.4	511.1	486.1
72.5°	3109.6	822.1	377.5	382.9	441.5	476.7	671.3	609.6	512.7	468.1	440.0
75°	2362.5	600.2	304.0	300.9	326.7	378.2	568.2	543.1	449.4	389.2	372.8
77.5°	1020.6	326.7	227.4	229.8	221.9	286.8	447.0	466.6	385.3	316.5	301.7
80°	309.5	188.3	155.5	158.6	148.5	192.2	314.9	365.7	309.5	246.2	225.9
82.5°	158.6	112.5	106.3	104.7	94.6	108.6	190.7	250.1	221.2	154.0	136.0
85°	68.8	60.2	52.4	50.8	44.5	39.1	68.0	125.0	117.2	86.0	82.1
87.5°	17.2	15.6	10.2	9.4	5.5	0.8	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)