

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: STREETWORKS

Report Number: P317766

Luminaire Tested: **GAN-SA2C-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 14798 lumens
Efficiency: N/A
Efficacy: 131.0 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): 113
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

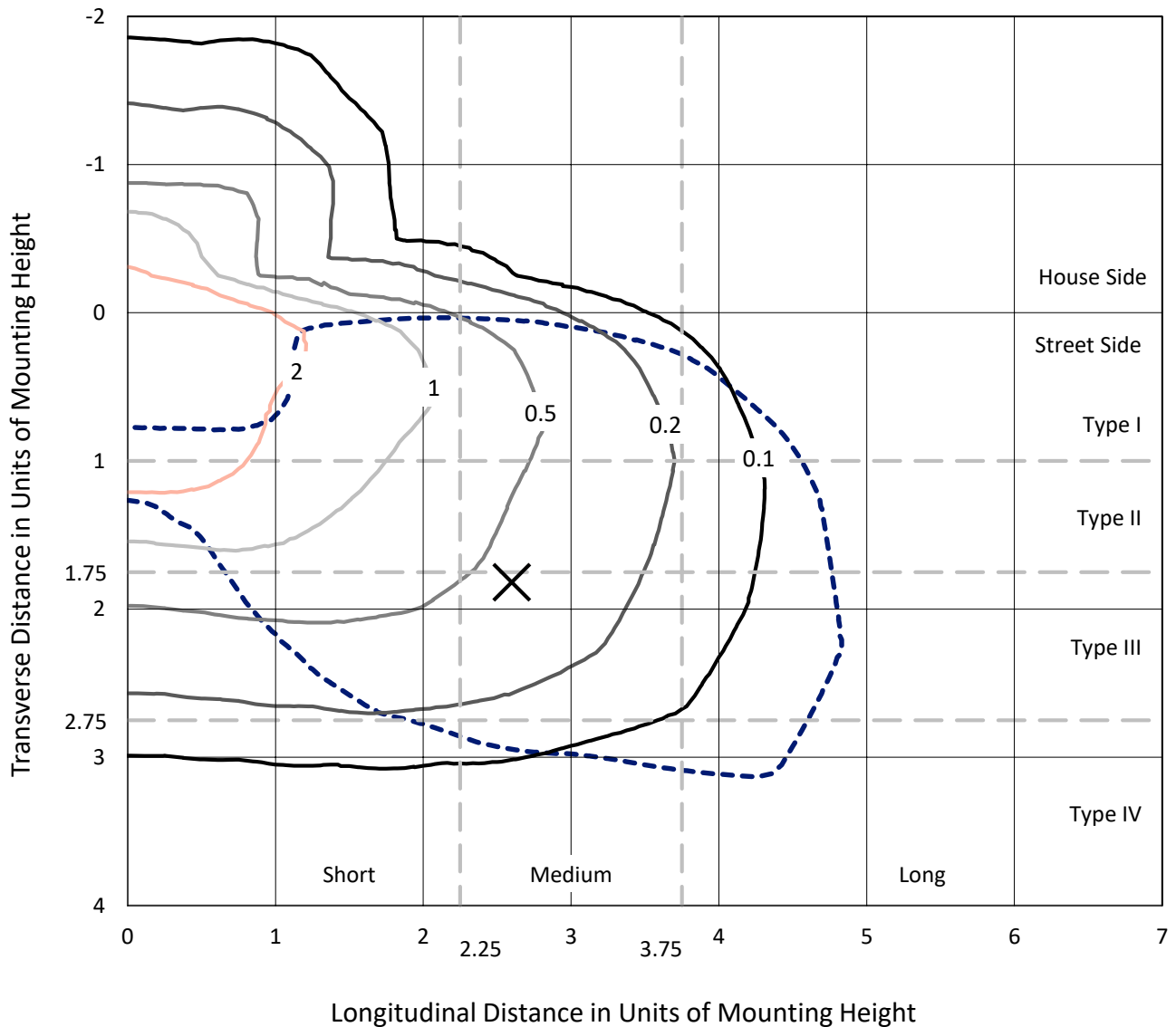




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Iso-Footcandle Lines of Horizontal Illumination

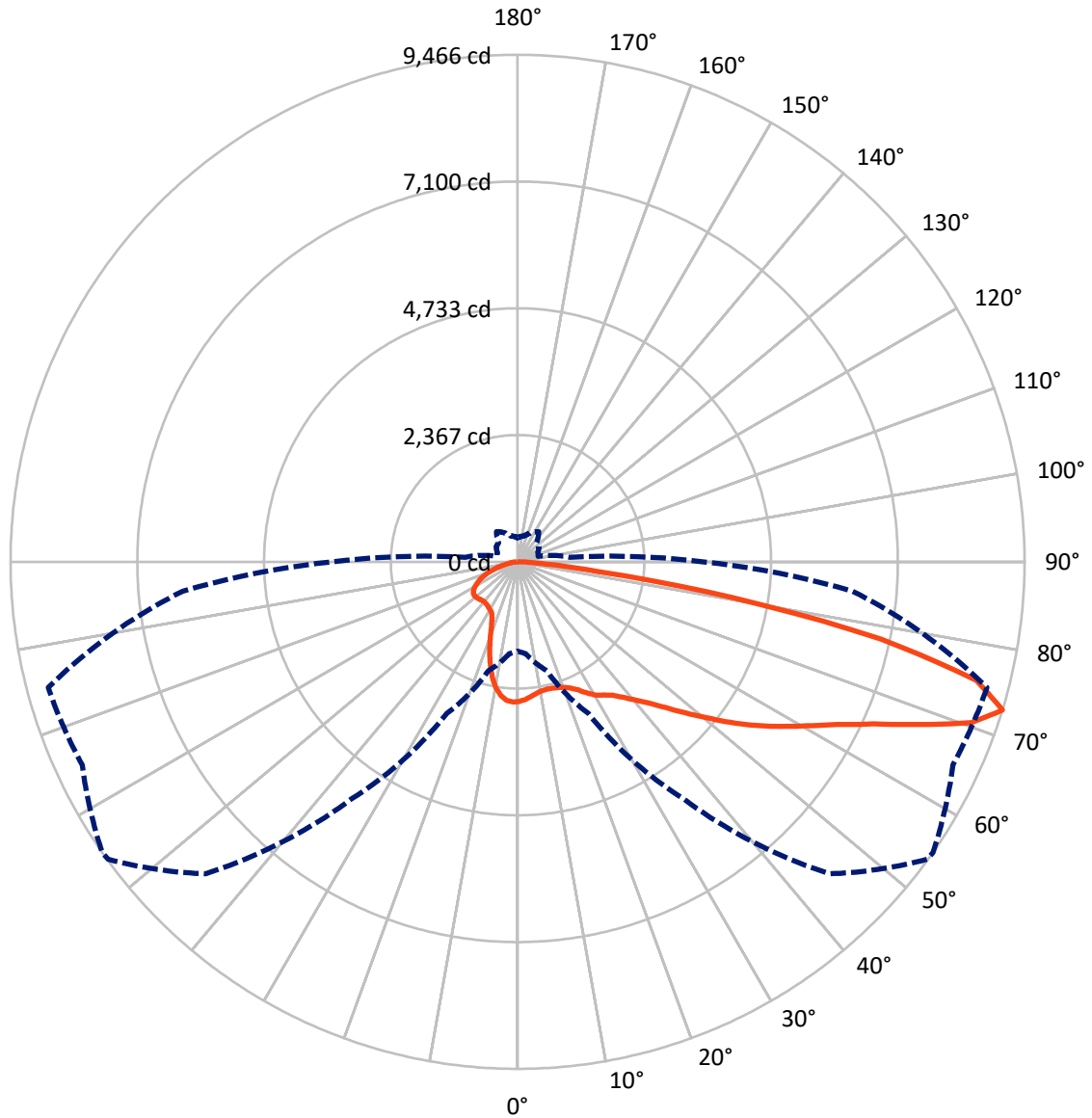
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2750.5	0.0	2750.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12047.5	0.0	12047.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	14798.0	0.0	14798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	1.6
10°-20°	628.8	4.2
20°-30°	1036.7	7.0
30°-40°	1533.6	10.4
40°-50°	2140.5	14.5
50°-60°	2787.1	18.8
60°-70°	3425.2	23.1
70°-80°	2685.0	18.1
80°-90°	324.9	2.2
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°	14798.0	100.0
0°-180°	14798.0	100.0

Coefficient of Utilization

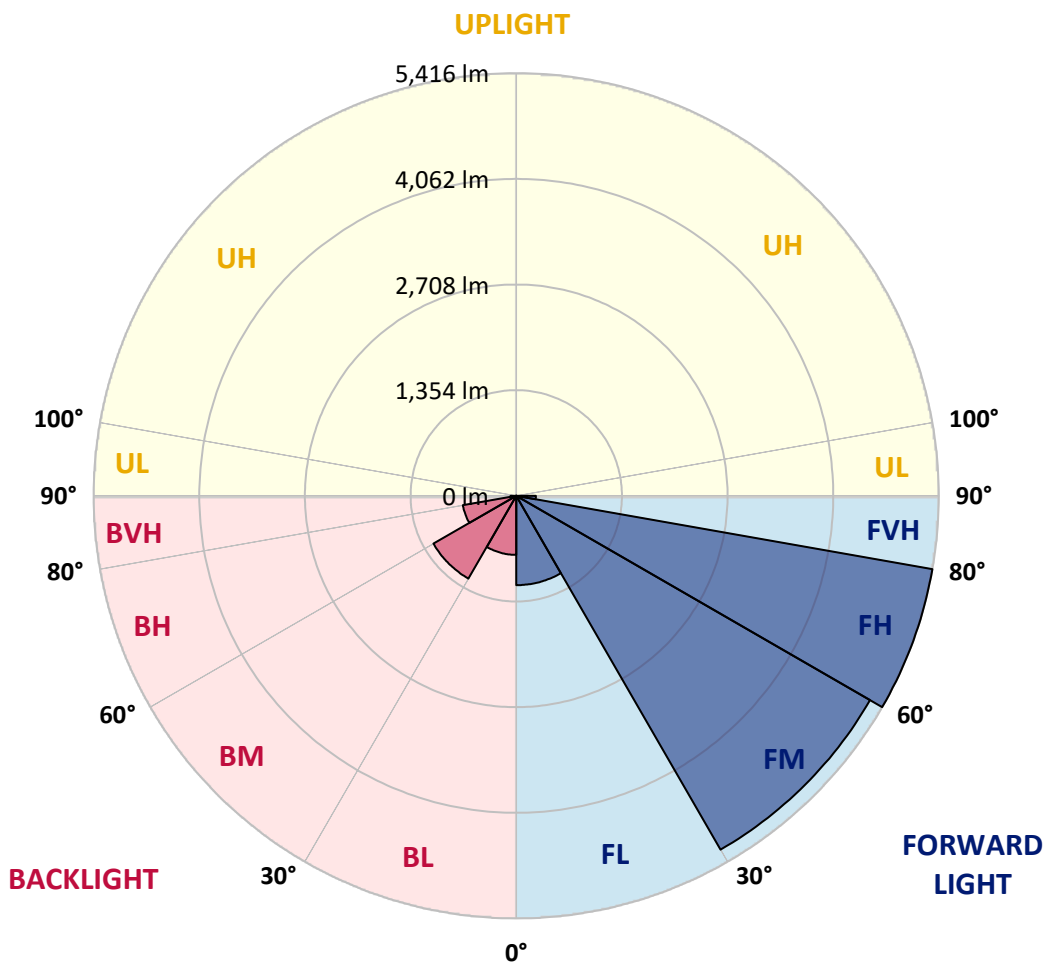


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.9	7.7			
FM (30°-60°)	5235.8	35.4			
FH (60°-80°)	5415.6	36.6			G3/7500
FVH (80°-90°)	251.2	1.7			G3/500
BL (0°-30°)	756.8	5.1	B2/1000		
BM (30°-60°)	1225.4	8.3	B2/2500		
BH (60°-80°)	694.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	73.7	0.5			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°	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0
2.5°	2525.1	2519.1	2526.6	2537.1	2548.6	2564.1	2573.1	2577.1	2592.6	2598.6	2611.5
5°	2408.1	2405.1	2417.6	2435.6	2461.1	2497.1	2526.1	2531.6	2572.6	2601.6	2628.0
7.5°	2323.2	2323.2	2337.6	2359.1	2387.6	2436.1	2477.1	2484.6	2554.1	2616.5	2665.5
10°	2255.7	2258.2	2275.2	2300.7	2334.1	2385.6	2440.1	2448.6	2549.1	2651.5	2729.5
12.5°	2210.7	2216.7	2232.2	2255.2	2296.7	2359.1	2428.1	2439.6	2559.6	2701.5	2806.5
15°	2239.2	2249.2	2250.7	2260.2	2283.2	2351.1	2435.1	2447.1	2582.1	2752.5	2893.9
17.5°	2364.1	2367.6	2352.1	2332.2	2321.2	2364.6	2456.1	2468.6	2609.0	2803.0	2977.9
20°	2554.1	2552.1	2518.6	2464.6	2408.6	2415.6	2490.6	2503.6	2645.5	2847.5	3061.9
22.5°	2794.0	2787.0	2735.5	2636.0	2540.6	2500.6	2551.1	2562.1	2700.5	2910.9	3151.9
25°	3084.9	3069.4	3001.4	2868.0	2727.5	2624.5	2642.0	2652.5	2780.5	2981.9	3234.3
27.5°	3391.8	3376.3	3289.8	3128.4	2941.4	2781.0	2767.5	2776.5	2871.5	3034.4	3295.3
30°	3712.6	3696.2	3617.2	3436.2	3168.3	2942.9	2884.4	2887.9	2935.4	3062.9	3345.3
32.5°	4035.0	4019.5	3931.1	3721.1	3414.8	3116.9	2968.9	2964.4	2973.9	3092.4	3401.8
35°	4361.9	4367.9	4264.4	4032.0	3687.7	3310.3	3068.9	3059.4	3038.4	3152.9	3481.7
37.5°	4711.8	4707.8	4573.8	4330.9	3973.1	3520.2	3212.3	3210.8	3138.4	3267.3	3607.2
40°	4945.7	4948.2	4866.7	4636.8	4261.4	3752.6	3396.3	3392.8	3297.8	3438.7	3771.6
42.5°	5037.2	5053.7	5074.7	4928.7	4563.3	4022.0	3615.7	3610.7	3520.2	3684.7	3965.1
45°	5043.7	5076.6	5206.6	5188.1	4869.2	4330.4	3896.1	3882.1	3817.1	4011.5	4196.0
47.5°	4987.7	5021.7	5237.6	5342.6	5142.6	4655.8	4224.0	4213.0	4157.0	4420.4	4445.9
50°	4865.2	4897.7	5173.6	5418.0	5367.5	4968.7	4601.8	4572.8	4542.8	4892.7	4731.8
52.5°	4635.8	4698.3	5088.1	5436.0	5502.0	5246.6	4999.2	4980.2	4996.7	5391.0	5018.2
55°	4092.5	4162.5	4867.7	5421.0	5601.5	5480.0	5396.5	5395.5	5481.0	5913.8	5325.6
57.5°	3788.1	3837.6	4418.9	5395.5	5719.4	5711.9	5789.9	5799.4	5965.8	6483.1	5647.4
60°	3616.2	3668.2	4191.5	5301.1	5902.3	6011.8	6191.2	6210.2	6458.6	7113.4	6034.8
62.5°	3459.7	3516.7	4050.5	5108.6	6117.8	6440.7	6672.1	6689.1	6980.5	7761.2	6409.2
65°	3192.3	3256.8	3844.1	4982.2	6313.7	6999.9	7283.3	7294.8	7579.7	8439.9	6695.6
67.5°	2814.5	2873.5	3454.7	4702.8	6458.6	7679.2	8096.0	8102.5	8174.0	8919.2	6842.0
70°	2373.1	2395.6	2899.9	4126.0	6287.2	8314.5	8986.7	8988.2	8715.8	9226.1	6818.0
72.5°	1667.4	1720.4	2105.2	3123.4	5403.0	8237.0	9449.1	9466.1	8967.7	9071.2	6273.2
75°	1022.6	1078.6	1320.5	1892.8	3427.8	6478.1	8730.3	8848.3	8495.4	8088.1	5124.6
77.5°	683.8	704.7	861.7	1103.6	1552.9	3727.1	6712.1	6934.0	7057.4	5898.4	3277.3
80°	381.4	421.3	571.3	685.8	690.7	1481.0	4024.5	4076.5	3926.6	2348.6	1011.1
82.5°	201.9	223.9	381.4	402.9	376.9	495.8	1500.0	1501.5	1254.5	629.8	300.4
85°	156.4	174.9	261.4	245.9	192.4	219.9	494.8	521.8	426.8	257.9	98.0
87.5°	78.0	97.0	177.4	155.9	75.5	63.0	176.9	188.9	168.4	101.0	35.5
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°	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0	2610.0
2.5°	2616.5	2621.0	2626.5	2620.5	2618.5	2610.5	2597.1	2594.1	2587.1	2587.6	2591.6
5°	2639.5	2647.0	2644.0	2621.0	2593.6	2555.1	2515.1	2481.1	2458.6	2457.1	2455.6
7.5°	2683.5	2688.5	2665.0	2599.6	2522.6	2433.6	2349.6	2276.2	2231.7	2220.7	2218.2
10°	2752.5	2751.5	2687.0	2555.1	2401.6	2242.7	2107.7	2005.8	1946.3	1928.8	1924.3
12.5°	2829.5	2818.0	2694.5	2474.1	2230.7	2010.3	1839.3	1725.9	1663.9	1643.9	1638.9
15°	2908.9	2880.5	2676.0	2353.1	2020.8	1759.9	1580.4	1475.5	1442.0	1431.0	1429.0
17.5°	2982.9	2927.9	2623.0	2189.2	1781.4	1510.4	1370.5	1328.5	1336.5	1351.0	1351.5
20°	3055.4	2959.9	2538.1	1982.3	1528.9	1305.0	1257.5	1288.5	1326.5	1356.0	1360.0
22.5°	3126.9	2982.4	2428.6	1743.4	1303.0	1189.6	1223.1	1279.5	1323.0	1355.0	1360.5
25°	3186.8	2987.9	2277.7	1488.5	1146.1	1146.1	1206.6	1260.0	1303.0	1334.5	1340.0
27.5°	3208.8	2950.9	2064.7	1252.5	1067.1	1126.1	1183.6	1228.1	1264.5	1298.0	1304.0
30°	3217.3	2882.4	1818.8	1063.1	1034.6	1104.6	1152.6	1190.6	1225.1	1256.5	1262.0
32.5°	3218.8	2800.0	1557.9	955.7	1012.1	1082.1	1114.1	1147.6	1184.6	1197.1	1199.1
35°	3228.3	2702.5	1283.0	900.7	991.1	1061.1	1086.6	1110.6	1050.6	1055.1	1059.1
37.5°	3255.8	2606.1	1053.1	869.7	977.6	1050.1	1080.6	993.6	946.7	935.7	934.2
40°	3307.3	2503.1	882.7	844.7	972.6	1055.6	1042.1	927.7	846.7	786.2	777.2
42.5°	3378.8	2392.1	773.7	828.2	976.1	1082.1	988.6	864.2	729.7	690.7	685.8
45°	3459.2	2275.7	714.7	816.7	988.1	1102.6	977.6	779.7	675.3	645.8	643.3
47.5°	3537.2	2133.2	684.3	811.7	1004.6	1086.1	931.2	753.7	649.3	633.8	635.3
50°	3626.7	2004.8	665.8	806.2	1019.1	1075.6	878.7	740.2	639.3	658.3	678.3
52.5°	3702.2	1871.8	649.3	795.2	1024.6	1057.1	865.2	742.7	639.3	675.8	694.7
55°	3791.6	1771.4	630.3	772.2	1014.1	1004.6	855.7	757.7	646.8	623.8	625.8
57.5°	3907.1	1738.4	609.3	736.2	979.1	928.2	851.2	772.2	642.3	627.8	632.8
60°	4067.0	1773.4	600.8	689.2	924.7	868.2	851.7	764.7	610.8	585.8	586.3
62.5°	4219.5	1812.3	600.3	659.8	857.7	814.7	840.2	740.2	594.8	580.3	585.8
65°	4269.4	1772.9	576.3	626.8	782.2	750.7	819.2	714.2	582.8	560.8	559.8
67.5°	4202.5	1650.4	527.8	573.3	695.7	676.3	791.7	683.3	563.8	545.8	542.8
70°	4003.5	1377.0	467.8	502.8	597.3	592.3	748.2	647.3	538.3	522.8	509.8
72.5°	3468.2	981.1	394.4	418.3	486.3	502.3	688.2	600.3	502.3	468.8	448.8
75°	2848.5	726.2	323.9	328.9	369.4	412.8	605.8	545.3	459.8	402.9	387.4
77.5°	1744.4	444.3	257.9	259.9	264.9	329.4	498.8	483.8	405.9	335.9	324.9
80°	564.8	242.4	186.4	195.9	180.9	241.4	385.9	411.8	348.4	280.9	268.9
82.5°	214.9	141.4	126.0	132.5	125.5	161.9	281.4	329.9	285.4	230.9	187.9
85°	104.0	80.0	74.5	83.5	77.5	83.0	179.9	242.9	216.4	150.4	139.9
87.5°	37.0	35.5	28.5	38.5	33.0	29.5	55.0	122.5	142.9	103.5	92.5
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)