

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: P522767

Luminaire Tested: **GLAN-SA5B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23849 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

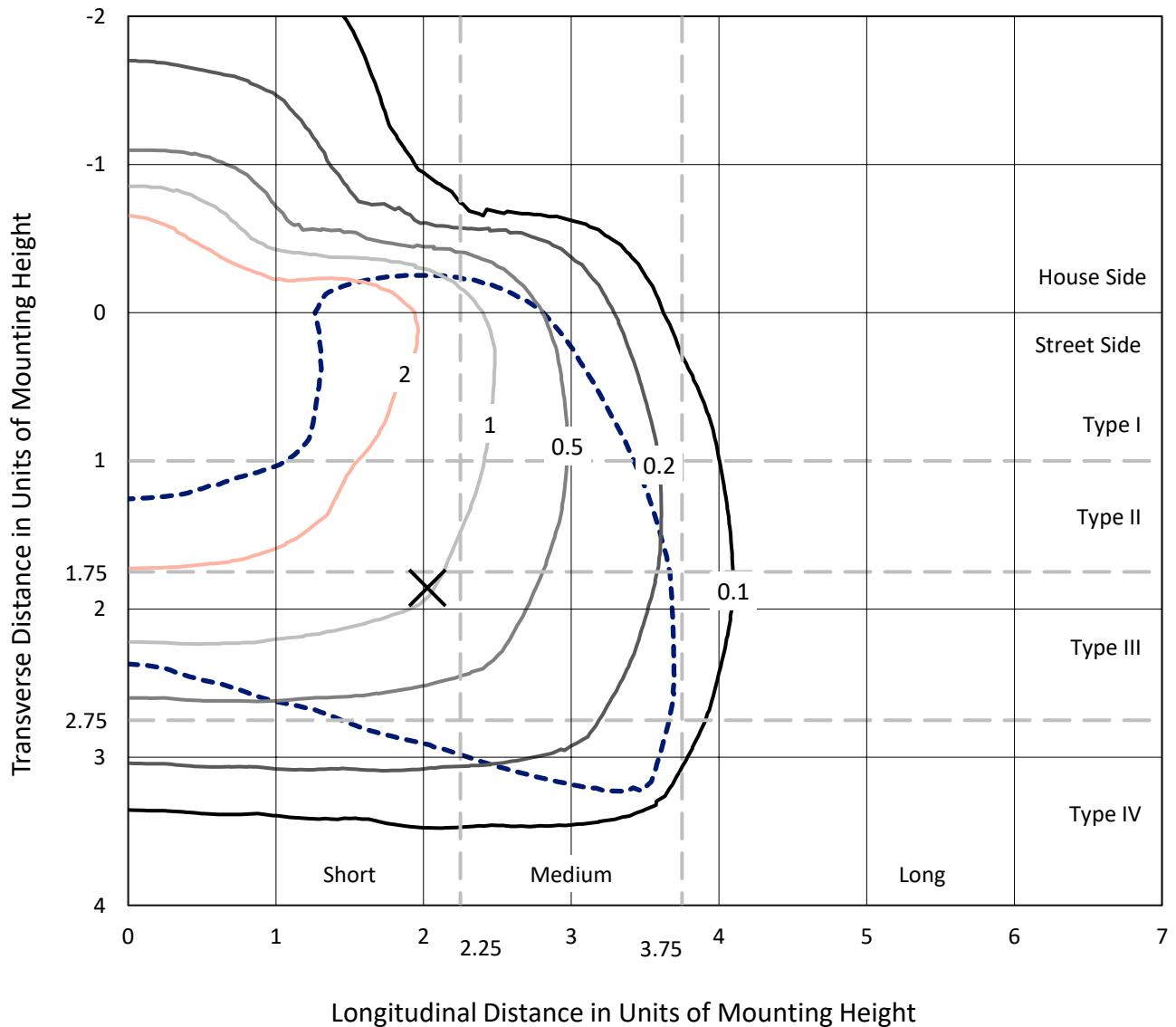
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

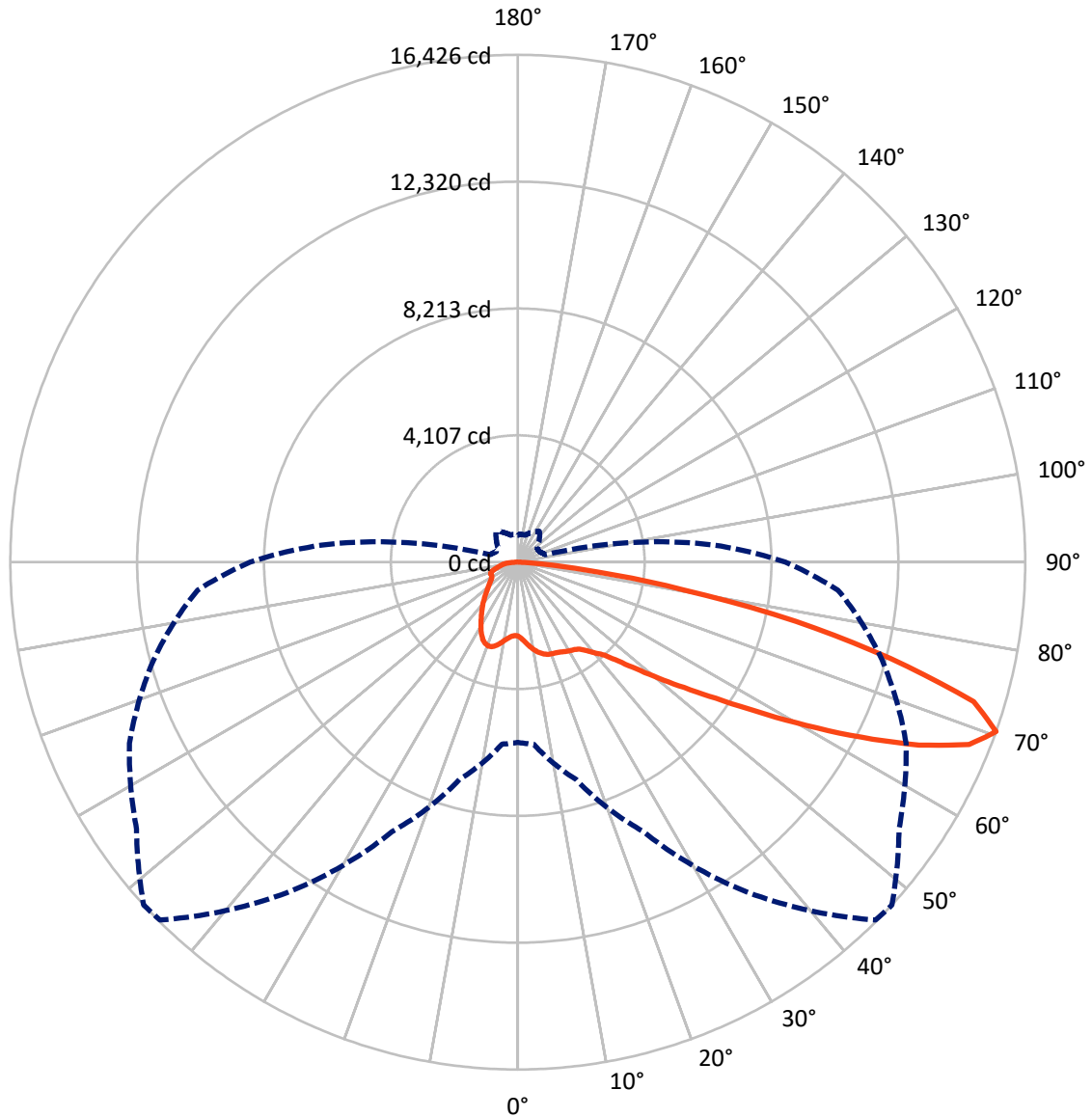
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5399.9	0.0	5399.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18449.1	0.0	18449.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	23849.0	0.0	23849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	1.0
10°-20°	825.0	3.5
20°-30°	1372.0	5.8
30°-40°	1944.6	8.2
40°-50°	2870.7	12.0
50°-60°	4972.1	20.8
60°-70°	7023.3	29.4
70°-80°	4037.4	16.9
80°-90°	557.1	2.3
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°	23849.0	100.0
0°-180°	23849.0	100.0

Coefficient of Utilization



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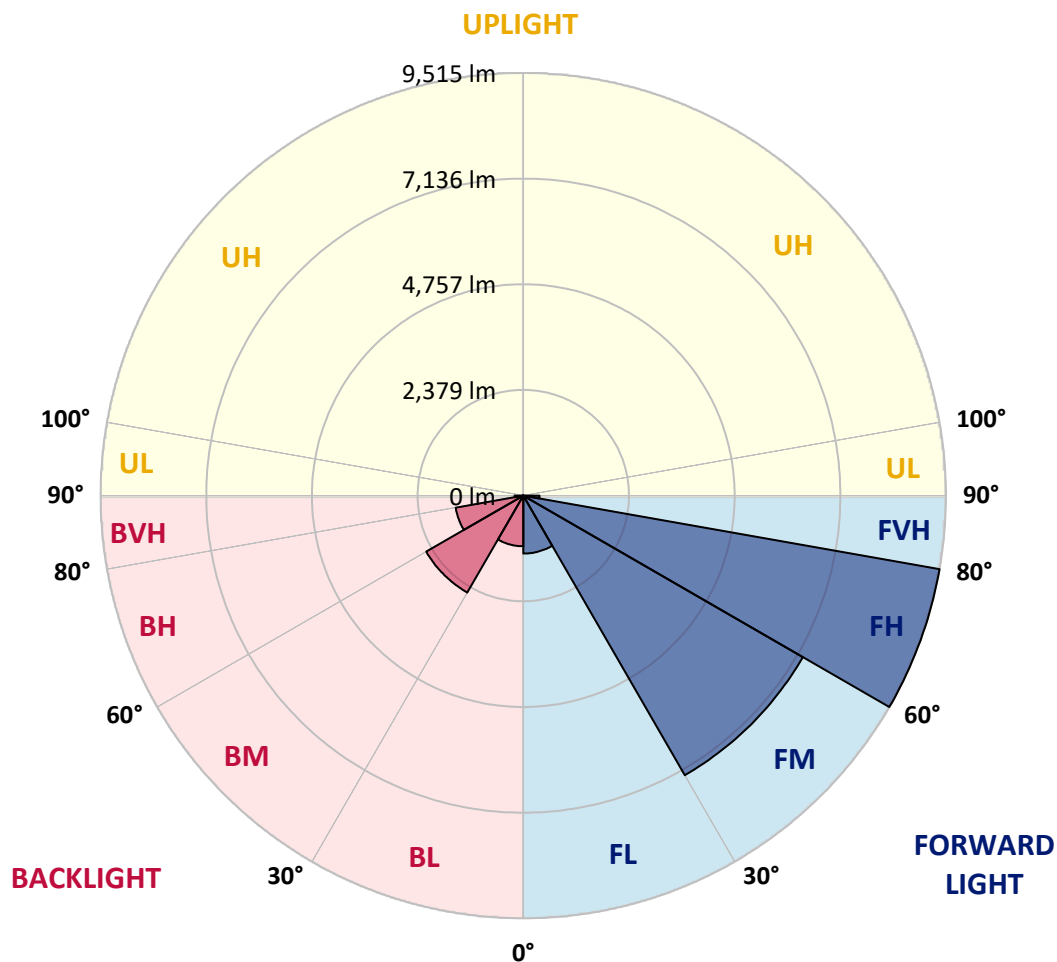
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1304.2	5.5			
FM	(30°-60°)	7266.3	30.5			
FH	(60°-80°)	9514.8	39.9			G4/12000
FVH	(80°-90°)	363.9	1.5			G3/500
BL	(0°-30°)	1139.7	4.8	B3/2500		
BM	(30°-60°)	2521.1	10.6	B3/5000		
BH	(60°-80°)	1545.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	193.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2
2.5°	2548.6	2539.6	2538.4	2519.2	2509.0	2489.9	2482.2	2464.3	2442.6	2421.0	2400.5
5°	2748.9	2748.9	2740.0	2713.2	2671.1	2627.7	2608.6	2574.1	2512.8	2463.1	2421.0
7.5°	2954.4	2957.0	2939.1	2899.5	2839.5	2769.4	2751.5	2700.4	2613.7	2540.9	2478.4
10°	3131.8	3131.8	3107.5	3053.9	2978.7	2902.1	2884.2	2826.8	2729.8	2639.2	2557.5
12.5°	3267.1	3267.1	3235.2	3165.0	3083.3	3014.4	2994.0	2939.1	2848.5	2747.7	2644.3
15°	3355.1	3348.8	3313.0	3233.9	3154.8	3094.8	3080.7	3034.8	2951.9	2849.8	2733.6
17.5°	3359.0	3356.4	3322.0	3255.6	3186.7	3145.8	3136.9	3106.3	3041.2	2944.2	2821.7
20°	3284.9	3290.0	3267.1	3219.9	3186.7	3168.8	3165.0	3154.8	3108.8	3018.2	2895.7
22.5°	3205.8	3214.7	3193.1	3167.5	3165.0	3182.8	3185.4	3187.9	3158.6	3070.5	2958.2
25°	3186.7	3193.1	3171.4	3148.4	3162.4	3209.6	3219.9	3230.1	3207.1	3133.1	3032.3
27.5°	3283.7	3278.6	3236.4	3186.7	3195.6	3259.4	3273.5	3284.9	3273.5	3209.6	3124.1
30°	3558.0	3541.5	3457.2	3311.7	3265.8	3310.5	3324.5	3356.4	3356.4	3309.2	3223.7
32.5°	4017.5	3985.6	3831.2	3545.3	3385.8	3359.0	3373.0	3425.3	3452.1	3415.1	3322.0
35°	4575.2	4542.0	4321.2	3937.1	3605.3	3456.0	3452.1	3510.8	3582.3	3499.3	3378.1
37.5°	5135.4	5101.0	4835.5	4404.2	3925.6	3660.1	3637.2	3657.6	3688.2	3536.4	3456.0
40°	5695.7	5654.8	5422.6	4926.1	4317.4	3930.7	3870.7	3778.8	3766.1	3657.6	3606.5
42.5°	6250.8	6213.8	6096.4	5511.9	4787.0	4194.9	4103.0	3944.7	3993.2	3928.1	3883.5
45°	6811.1	6813.6	6688.6	6169.2	5353.7	4682.4	4558.6	4311.0	4425.9	4401.6	4427.1
47.5°	7307.5	7301.1	7256.5	6807.3	6056.8	5310.3	5150.7	4863.6	5060.1	5149.5	5344.7
50°	7788.7	7784.8	7787.4	7530.9	6873.6	6056.8	5880.7	5579.5	6022.4	6332.5	6682.2
52.5°	8477.8	8499.5	8345.1	8277.4	7866.5	6938.7	6744.7	6433.3	7159.5	7648.3	8331.0
55°	9169.5	9151.6	9030.4	9100.6	8905.3	7982.6	7779.7	7532.1	8425.5	8960.2	9986.3
57.5°	9576.6	9583.0	9706.8	10050.1	10187.9	9284.4	9100.6	8909.2	9848.4	10227.5	11459.0
60°	9942.9	9972.2	10328.3	10976.6	11350.5	10883.4	10720.1	10533.8	11154.0	11304.6	12737.8
62.5°	10057.7	10148.3	10769.9	11739.8	12483.8	12688.0	12485.1	12074.1	12397.0	12338.3	13604.3
65°	9484.7	9608.5	10722.6	12025.6	13495.8	14400.6	14271.8	13508.6	13456.3	13102.8	13746.0
67.5°	7976.3	8100.0	9530.7	11425.8	13914.4	15883.6	15754.7	14555.1	14099.5	13174.2	12673.9
70°	5836.1	5913.9	7282.0	9620.0	13073.4	16381.3	16426.0	15065.6	13869.7	12203.0	10406.1
72.5°	3362.8	3535.1	4493.5	6767.7	10680.5	15123.0	15433.1	14003.8	12417.4	10180.3	7275.6
75°	1445.9	1449.8	2077.7	3732.9	7233.5	12155.8	12455.7	11608.3	9751.5	7039.5	3884.8
77.5°	687.9	700.6	913.8	1666.7	3981.7	8398.7	9207.8	8200.9	6236.8	3381.9	1467.6
80°	446.7	455.6	559.0	827.0	1952.6	4870.0	5434.1	4730.9	2751.5	1208.6	633.0
82.5°	270.6	273.1	373.9	505.4	1074.6	2205.3	2599.6	2053.4	1174.1	723.6	372.7
85°	164.6	165.9	227.2	312.7	652.1	761.9	782.3	775.9	689.1	473.5	199.1
87.5°	79.1	81.7	117.4	148.0	256.5	236.1	223.3	259.1	325.4	255.2	85.5
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°	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2
2.5°	2391.6	2387.8	2378.8	2375.0	2372.5	2373.7	2372.5	2372.5	2373.7	2373.7	2373.7
5°	2403.1	2396.7	2382.7	2382.7	2390.3	2408.2	2424.8	2437.5	2451.6	2450.3	2450.3
7.5°	2452.9	2441.4	2424.8	2429.9	2449.0	2477.1	2506.5	2534.5	2562.6	2565.2	2563.9
10°	2525.6	2514.1	2496.2	2502.6	2533.3	2575.4	2612.4	2653.2	2683.9	2692.8	2690.2
12.5°	2608.6	2585.6	2570.3	2588.1	2636.6	2692.8	2728.5	2759.1	2780.8	2793.6	2788.5
15°	2692.8	2671.1	2653.2	2690.2	2748.9	2801.3	2819.1	2824.2	2828.1	2840.8	2838.3
17.5°	2774.5	2745.1	2738.7	2787.2	2843.4	2866.3	2856.1	2834.4	2817.9	2828.1	2826.8
20°	2847.2	2824.2	2821.7	2870.2	2891.9	2870.2	2826.8	2788.5	2759.1	2761.7	2760.4
22.5°	2916.1	2898.3	2900.8	2921.2	2886.8	2812.7	2741.3	2689.0	2657.0	2663.4	2667.3
25°	2992.7	2974.8	2981.2	2948.0	2834.4	2705.5	2602.2	2557.5	2544.7	2557.5	2566.4
27.5°	3092.2	3080.7	3076.9	2949.3	2741.3	2547.3	2429.9	2413.3	2424.8	2452.9	2466.9
30°	3199.4	3199.4	3179.0	2927.6	2613.7	2357.1	2255.0	2257.6	2297.2	2336.7	2350.8
32.5°	3302.8	3324.5	3260.7	2868.9	2449.0	2172.1	2094.2	2096.8	2131.3	2179.8	2192.5
35°	3388.3	3450.8	3330.9	2761.7	2255.0	2016.4	1957.7	1923.2	1924.5	1961.5	1971.7
37.5°	3505.7	3621.9	3371.7	2602.2	2048.3	1883.7	1817.3	1757.3	1717.8	1702.5	1702.5
40°	3709.9	3880.9	3381.9	2366.1	1853.0	1757.3	1662.9	1591.4	1514.9	1445.9	1433.2
42.5°	4055.8	4271.4	3361.5	2094.2	1676.9	1618.2	1526.3	1438.3	1332.4	1235.4	1227.7
45°	4668.3	4779.4	3306.6	1812.2	1520.0	1484.2	1394.9	1299.2	1186.9	1100.1	1093.7
47.5°	5649.7	5492.8	3233.9	1562.1	1377.0	1366.8	1297.9	1186.9	1074.6	1014.6	1008.2
50°	7082.9	6615.8	3223.7	1380.8	1262.2	1267.3	1211.1	1109.0	1010.8	961.0	953.3
52.5°	8808.3	7972.4	3291.3	1253.2	1161.3	1180.5	1152.4	1058.0	971.2	929.1	921.4
55°	10482.7	9192.5	3332.2	1153.7	1066.9	1102.6	1106.5	1027.3	948.2	906.1	901.0
57.5°	11841.9	10111.3	3150.9	1063.1	985.2	1040.1	1068.2	1009.5	936.7	904.8	899.7
60°	12787.5	10545.2	2635.4	982.7	925.2	990.3	1054.1	1010.8	964.8	968.6	971.2
62.5°	13088.7	10352.5	1976.8	922.7	884.4	973.7	1077.1	1063.1	1015.9	1045.2	1050.3
65°	12589.7	9556.2	1433.2	875.5	848.7	985.2	1146.0	1101.4	998.0	1019.7	1019.7
67.5°	10919.2	8232.8	1115.4	832.1	807.8	1006.9	1214.9	1097.5	955.9	981.4	958.4
70°	8661.6	6368.2	929.1	783.6	764.4	975.0	1221.3	1058.0	906.1	911.2	867.8
72.5°	5748.0	4187.2	798.9	737.6	698.1	876.7	1169.0	1006.9	857.6	828.3	784.9
75°	2816.6	2087.9	696.8	680.2	611.3	763.2	1097.5	958.4	805.3	759.3	735.1
77.5°	1091.2	888.2	594.7	607.5	532.2	672.6	1003.1	889.5	736.4	673.8	654.7
80°	529.6	504.1	487.5	506.7	437.7	573.0	916.3	829.5	672.6	603.6	575.6
82.5°	329.3	311.4	373.9	394.3	336.9	523.2	869.1	778.5	592.2	500.3	477.3
85°	167.2	178.7	250.1	269.3	241.2	416.0	715.9	584.5	427.5	354.8	357.3
87.5°	63.8	85.5	131.4	141.7	128.9	219.5	394.3	340.7	274.4	186.3	172.3
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)