

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: P322808

Luminaire Tested: **GAN-SA4C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17294 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

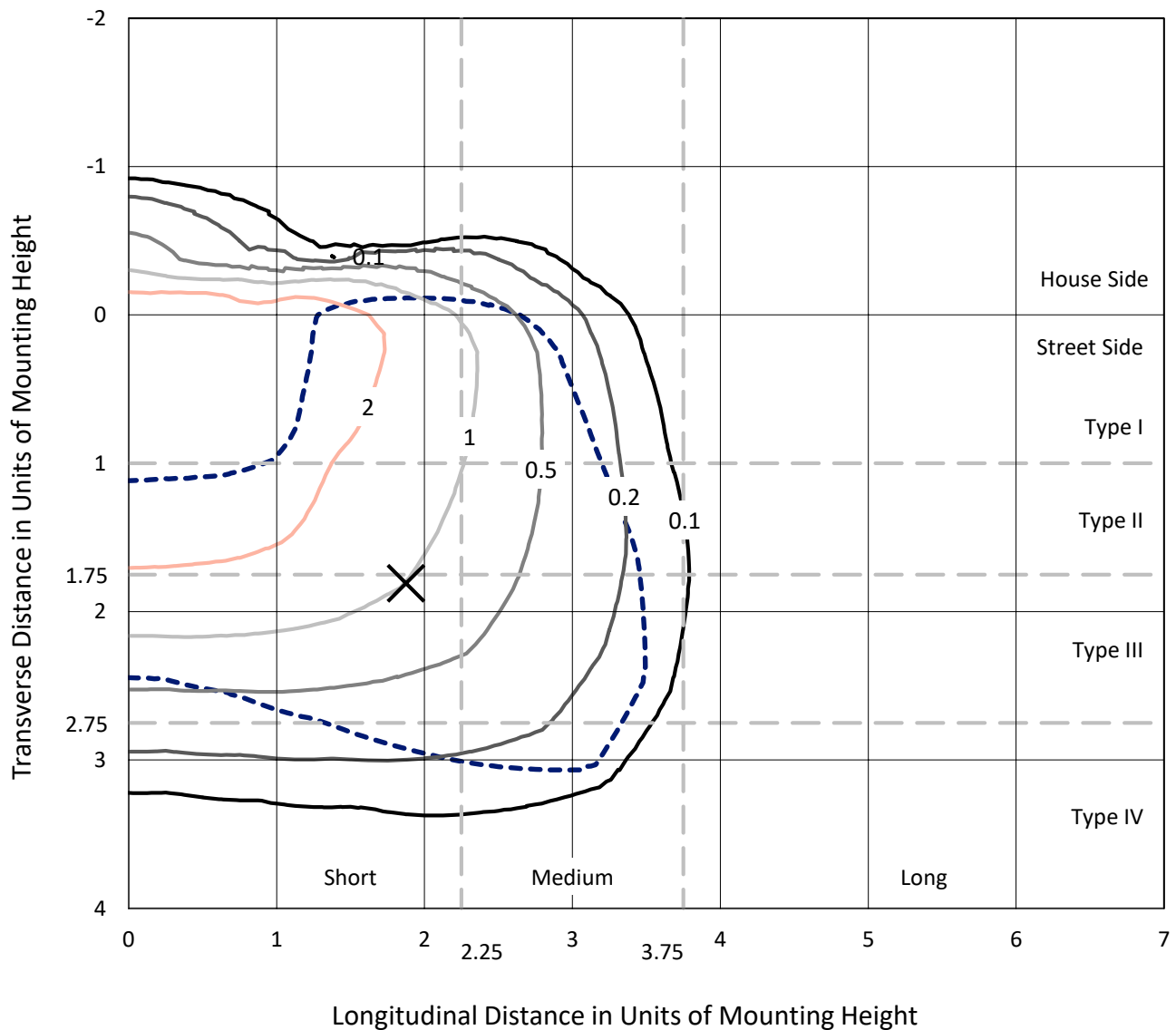
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322808
 CATALOG NUMBER: GAN-SA4C-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

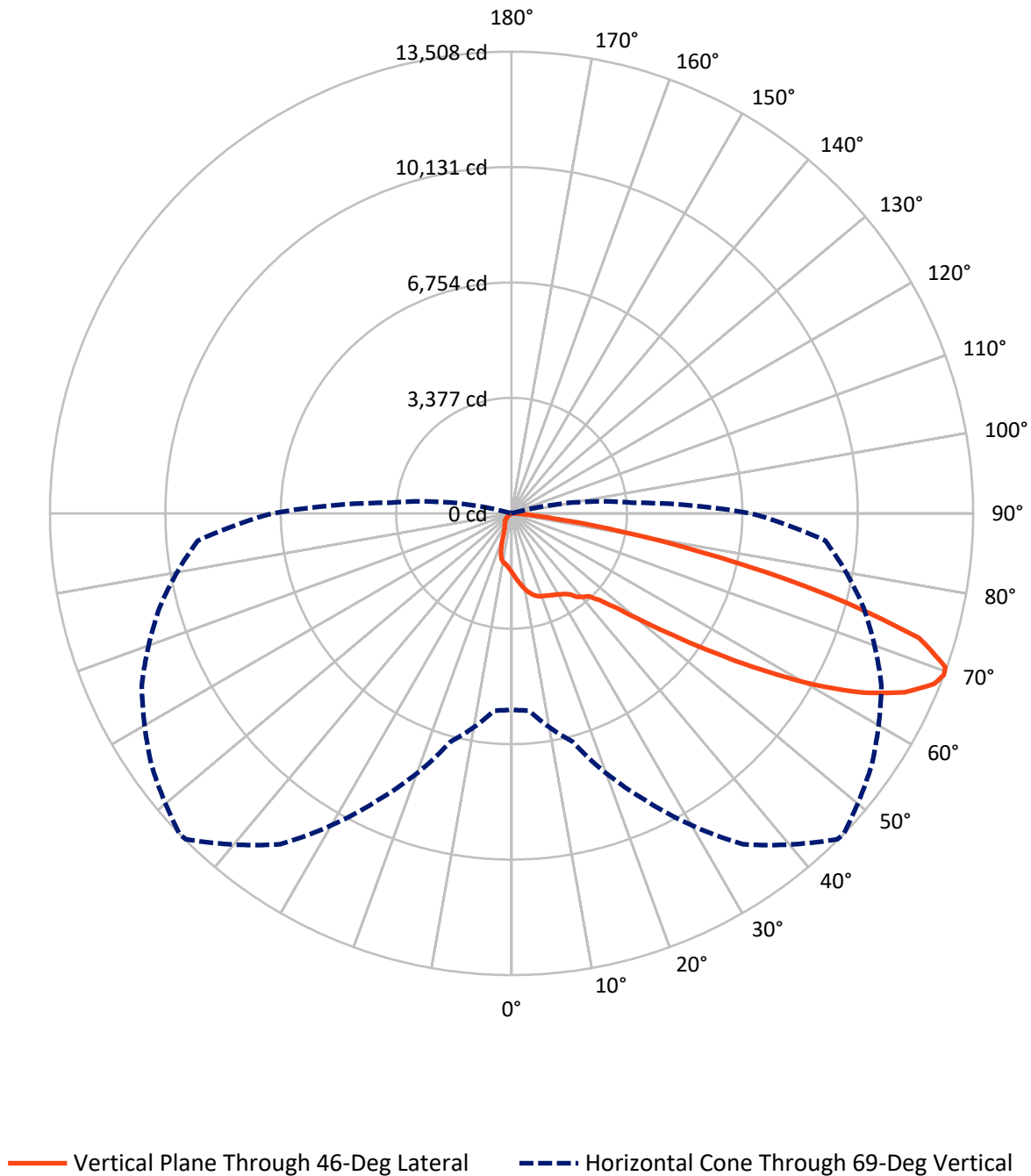
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

REPORT NUMBER: P322808
CATALOG NUMBER: GAN-SA4C-727-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1774.8	0.0	1774.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15519.2	0.0	15519.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	17294.0	0.0	17294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	1.0
10°-20°	523.2	3.0
20°-30°	822.9	4.8
30°-40°	1180.0	6.8
40°-50°	2039.5	11.8
50°-60°	4029.3	23.3
60°-70°	5631.2	32.6
70°-80°	2720.5	15.7
80°-90°	174.9	1.0
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°	17294.0	100.0
0°-180°	17294.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322808

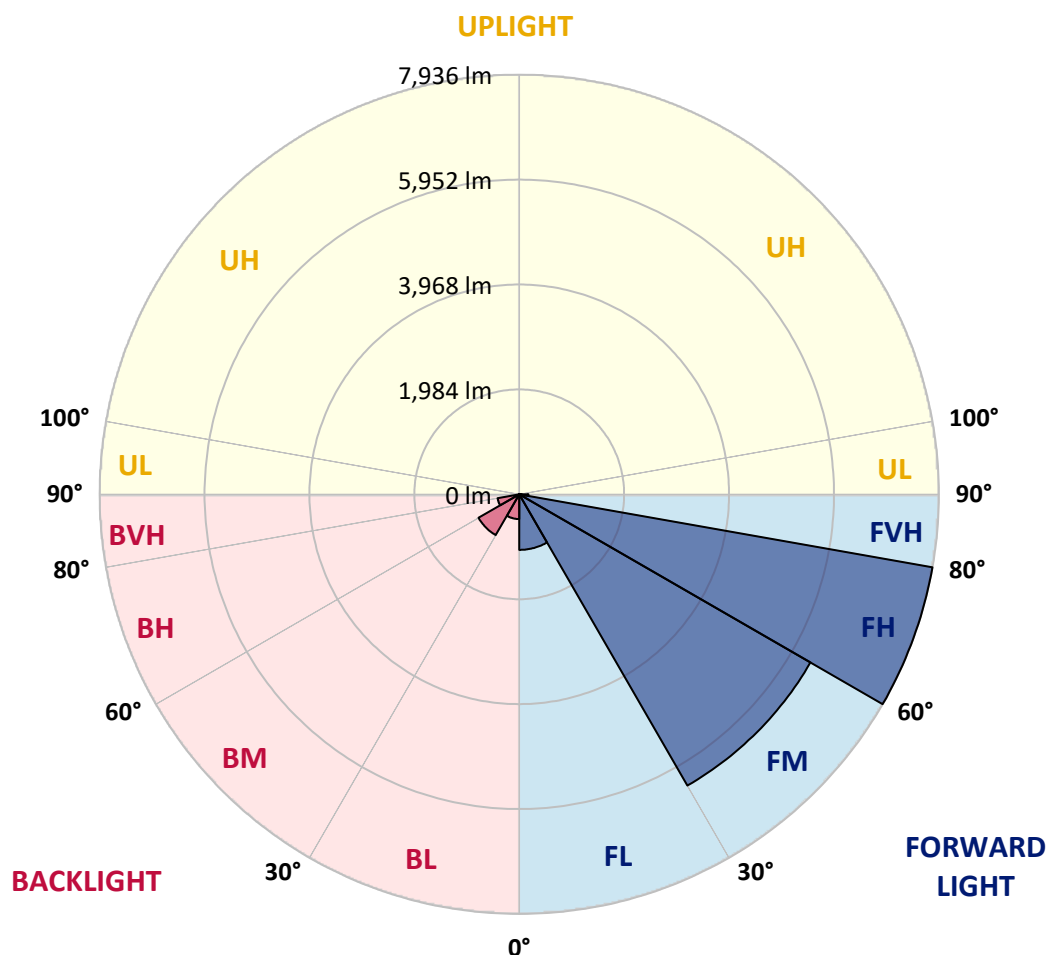
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.8	6.1			
FM	(30°-60°)	6359.4	36.8			
FH	(60°-80°)	7935.6	45.9			G4/12000
FVH	(80°-90°)	173.4	1.0			G2/225
BL	(0°-30°)	467.8	2.7	B1/500		
BM	(30°-60°)	889.4	5.1	B1/1000		
BH	(60°-80°)	416.2	2.4	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P322808

CATALOG NUMBER: GAN-SA4C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8
2.5°	1925.0	1922.5	1911.2	1906.3	1878.7	1862.5	1856.0	1835.8	1806.6	1777.4	1745.0
5°	2143.9	2143.1	2122.0	2101.7	2049.8	2001.2	1992.3	1945.2	1879.6	1817.9	1756.3
7.5°	2367.7	2357.2	2336.1	2297.1	2221.7	2143.9	2136.6	2070.1	1976.9	1887.7	1799.3
10°	2557.4	2550.9	2523.4	2464.2	2375.8	2287.4	2278.5	2196.6	2091.2	1981.7	1869.0
12.5°	2705.0	2700.1	2663.7	2589.9	2495.8	2404.2	2392.0	2319.0	2206.3	2083.9	1950.9
15°	2795.0	2792.6	2748.0	2669.3	2576.9	2497.4	2486.9	2422.8	2318.2	2190.1	2040.1
17.5°	2816.1	2816.9	2770.7	2691.2	2615.0	2558.2	2550.1	2501.5	2413.9	2286.6	2129.3
20°	2769.1	2778.8	2737.4	2668.5	2621.5	2591.5	2585.0	2555.8	2482.0	2362.0	2200.7
22.5°	2702.6	2707.4	2679.1	2632.8	2613.4	2619.1	2615.8	2599.6	2537.2	2426.9	2271.2
25°	2662.0	2662.0	2645.0	2606.1	2619.1	2653.9	2654.7	2651.5	2602.0	2506.3	2357.2
27.5°	2660.4	2655.5	2636.1	2606.9	2642.6	2696.1	2699.3	2721.2	2690.4	2602.8	2464.2
30°	2725.3	2719.6	2678.2	2640.1	2685.5	2743.1	2751.2	2799.1	2783.7	2707.4	2583.4
32.5°	2876.9	2856.6	2765.0	2702.6	2736.6	2805.6	2816.1	2892.3	2916.6	2836.4	2698.5
35°	3084.5	3020.4	2888.3	2821.0	2824.2	2896.4	2906.1	3018.0	3090.2	2954.8	2787.7
37.5°	3370.7	3339.1	3124.2	2944.2	2958.8	3068.3	3096.6	3218.3	3198.0	3019.6	2889.1
40°	3998.3	3948.9	3720.2	3289.6	3087.7	3207.7	3216.7	3281.5	3283.1	3166.4	3099.9
42.5°	4853.0	4832.7	4591.9	3916.4	3341.5	3301.0	3317.2	3426.7	3549.1	3476.1	3472.9
45°	5799.2	5788.7	5533.3	4748.4	3854.8	3606.7	3626.9	3773.7	4008.0	4024.3	4127.2
47.5°	6560.6	6555.8	6409.0	5676.8	4640.5	4124.8	4131.3	4287.0	4698.9	4902.4	5067.0
50°	7254.7	7278.2	7162.3	6681.4	5710.8	4936.5	4921.1	5024.9	5686.5	6019.8	6224.1
52.5°	8219.6	8252.9	7927.7	7618.8	6833.9	5943.6	5931.4	6040.0	6873.6	7123.3	7159.8
55°	9071.8	9015.1	8758.0	8668.8	8203.4	7187.4	7184.2	7279.8	8021.8	8128.0	8195.3
57.5°	9448.1	9426.2	9550.2	9754.6	9637.8	8657.5	8650.2	8577.2	9049.1	9060.5	9267.2
60°	9685.6	9712.4	10092.7	10722.7	11013.8	10239.5	10192.4	9747.3	10030.3	10005.1	10226.5
62.5°	9507.3	9560.0	10244.3	11294.4	12043.6	11620.3	11553.9	10819.2	10868.7	10781.9	10987.9
65°	8560.2	8642.1	9763.5	11186.5	12554.4	12699.6	12632.3	11765.5	11534.4	11391.7	11277.4
67.5°	6950.6	6999.3	8170.2	10248.4	12324.2	13343.4	13329.6	12595.0	12037.1	11288.7	10401.6
69°	5744.1	5791.9	6919.0	9260.8	11817.4	13481.3	13508.0	12860.9	11941.4	10662.7	9216.2
70°	4865.1	4916.2	5966.3	8414.2	11229.5	13417.2	13465.0	12835.8	11667.4	9937.8	8175.8
72.5°	2551.8	2595.5	3673.2	5796.8	9154.5	12320.1	12465.3	11750.9	9890.0	7217.4	4834.3
75°	801.9	827.1	1434.4	3030.2	6267.9	9579.4	9612.7	9217.8	7022.8	3969.9	2013.3
77.5°	305.7	298.4	477.6	1116.5	3168.8	6031.9	6235.5	5760.3	3685.3	1403.6	464.6
80°	164.6	165.4	248.1	462.2	1355.7	3099.9	3271.8	2791.8	1309.5	437.9	107.0
82.5°	71.4	74.6	139.5	244.9	622.7	1143.3	1229.3	1023.3	500.3	294.3	39.7
85°	15.4	17.0	67.3	133.0	253.8	321.1	336.5	331.6	318.7	228.7	15.4
87.5°	0.0	0.0	30.0	47.8	64.1	73.0	64.1	83.5	176.0	154.1	8.1
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°	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8
2.5°	1734.4	1719.8	1694.7	1667.1	1647.7	1627.4	1611.2	1603.9	1595.8	1590.1	1597.4
5°	1731.2	1702.8	1654.1	1607.1	1573.1	1545.5	1522.8	1513.9	1504.9	1498.5	1497.6
7.5°	1759.6	1719.8	1645.2	1576.3	1523.6	1486.3	1455.5	1442.5	1432.0	1427.1	1423.0
10°	1813.9	1762.8	1663.1	1573.1	1504.9	1441.7	1375.2	1324.1	1290.9	1275.5	1269.8
12.5°	1884.4	1820.4	1697.1	1590.1	1491.2	1369.5	1228.4	1106.8	1028.2	1002.2	986.8
15°	1967.1	1887.7	1741.7	1612.0	1440.9	1218.7	979.5	820.6	747.6	733.0	716.8
17.5°	2046.6	1959.0	1795.2	1616.0	1330.6	973.8	717.6	609.8	581.4	591.1	593.5
20°	2116.3	2029.6	1847.9	1580.4	1130.3	730.6	555.4	528.7	539.2	557.9	561.1
22.5°	2186.9	2097.7	1896.6	1486.3	874.1	554.6	500.3	506.8	517.3	536.0	539.2
25°	2272.8	2180.4	1942.0	1313.6	656.0	471.9	475.2	484.9	495.4	512.5	514.1
27.5°	2371.7	2285.0	1972.0	1089.0	486.5	433.8	444.3	458.9	469.5	485.7	488.9
30°	2503.1	2422.8	1981.7	856.3	407.9	399.8	404.6	422.5	437.9	452.5	454.9
32.5°	2626.4	2559.1	1949.3	646.3	377.9	368.1	368.1	378.7	396.5	410.3	413.5
35°	2739.9	2696.1	1845.5	472.7	355.2	338.9	330.8	330.8	342.2	353.5	356.8
37.5°	2889.9	2888.3	1677.7	377.0	333.3	314.6	297.6	284.6	280.6	283.0	284.6
40°	3146.9	3149.4	1458.7	338.1	314.6	289.5	263.5	240.0	218.1	210.8	210.0
42.5°	3548.3	3511.8	1229.3	319.5	298.4	263.5	224.6	193.0	158.9	148.4	147.6
45°	4185.6	3969.1	986.0	302.4	281.4	234.3	185.7	142.7	115.1	107.0	107.0
47.5°	5114.1	4570.0	763.8	283.8	258.7	201.1	140.3	103.0	84.3	80.3	81.1
50°	6074.1	5158.7	585.4	260.3	231.1	166.2	103.8	74.6	64.1	64.1	64.9
52.5°	6925.5	5590.0	456.5	235.1	197.0	130.5	78.7	58.4	53.5	52.7	53.5
55°	7722.6	5868.1	349.5	206.0	156.5	97.3	60.0	47.8	44.6	43.0	42.2
57.5°	8491.3	6006.0	261.9	166.2	113.5	70.5	47.8	40.5	37.3	34.9	34.1
60°	9002.9	5894.1	180.0	122.4	78.7	51.1	39.7	34.9	30.8	28.4	27.6
62.5°	9291.6	5588.4	116.0	88.4	55.9	38.1	31.6	29.2	23.5	21.1	21.1
65°	9174.8	5084.1	81.1	63.2	40.5	28.4	23.5	23.5	17.0	13.8	13.0
67.5°	8130.4	4295.1	61.6	47.0	29.2	21.1	17.8	20.3	10.5	6.5	6.5
69°	6995.2	3559.6	52.7	38.9	24.3	17.0	15.4	18.6	7.3	4.9	4.1
70°	6079.8	3070.7	47.8	34.1	20.3	14.6	13.8	17.8	7.3	4.1	3.2
72.5°	3637.5	1712.5	36.5	24.3	13.0	11.4	11.4	20.3	7.3	4.1	3.2
75°	1470.1	603.3	26.8	17.0	9.7	9.7	13.8	25.9	6.5	3.2	2.4
77.5°	333.3	132.2	15.4	10.5	6.5	9.7	16.2	20.3	4.1	1.6	0.0
80°	81.1	32.4	9.7	6.5	4.1	7.3	12.2	11.4	0.8	0.0	0.0
82.5°	26.8	11.4	4.1	3.2	0.8	2.4	5.7	3.2	0.0	0.0	0.0
85°	11.4	6.5	1.6	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.3	2.4	0.0	0.0	0.0	0.0	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)