

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: P321758

Luminaire Tested: **GAN-SA4B-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14088 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

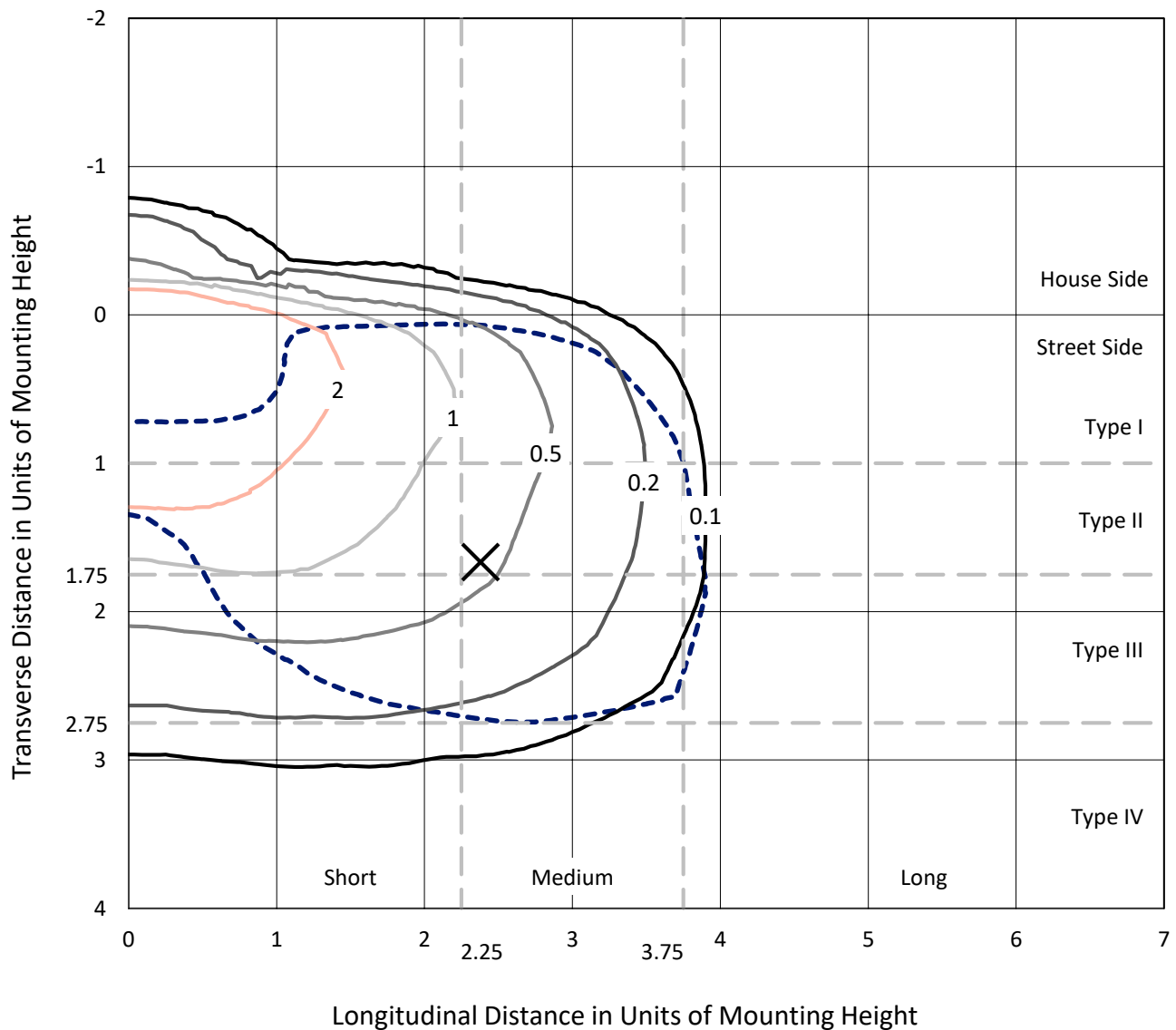
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

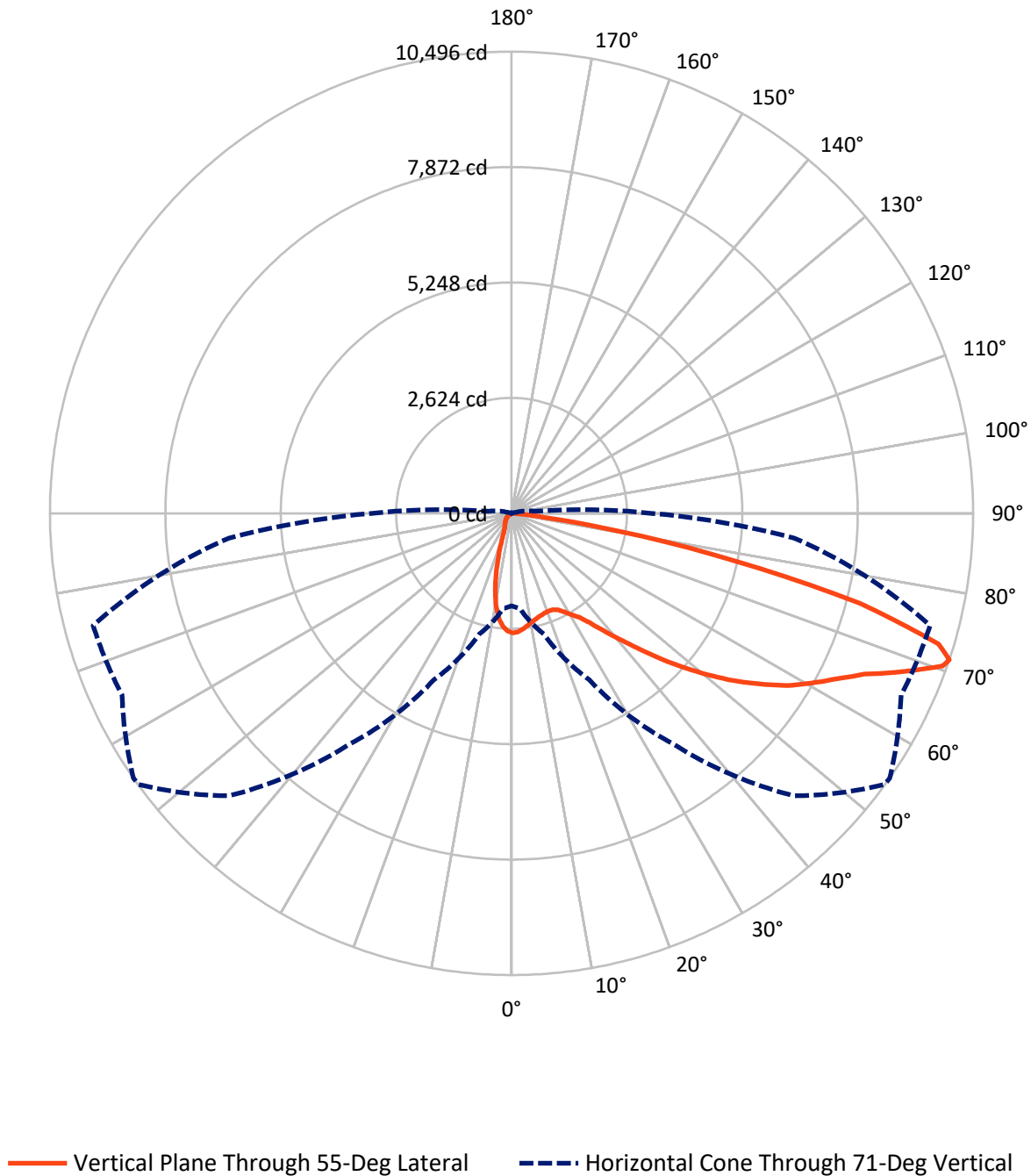
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1115.4	0.0	1115.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	12972.6	0.0	12972.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	14088.0	0.0	14088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	1.6
10°-20°	523.0	3.7
20°-30°	840.4	6.0
30°-40°	1427.9	10.1
40°-50°	2216.4	15.7
50°-60°	2979.8	21.2
60°-70°	3645.3	25.9
70°-80°	2131.3	15.1
80°-90°	92.1	0.7
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°	14088.0	100.0
0°-180°	14088.0	100.0

Coefficient of Utilization



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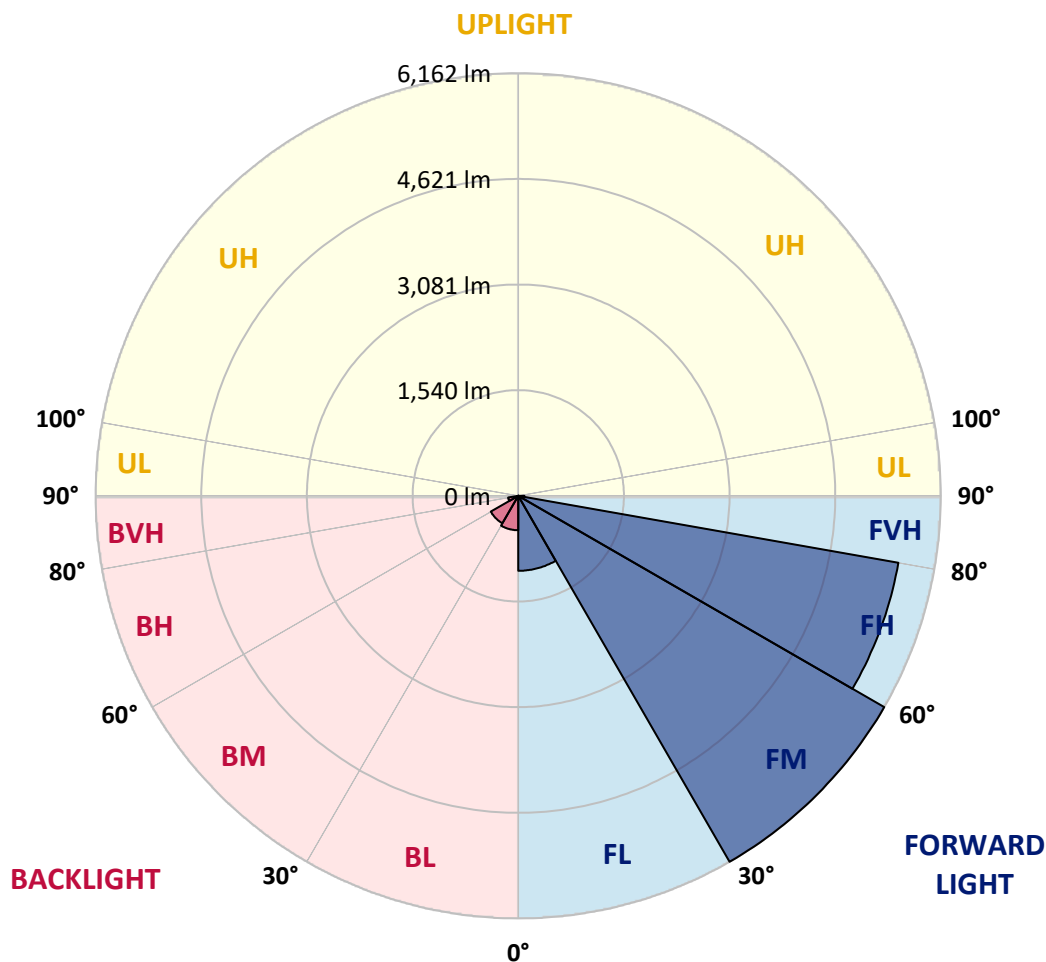
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.0	7.8			
FM	(30°-60°)	6161.7	43.7			
FH	(60°-80°)	5627.2	39.9			G3/7500
FVH	(80°-90°)	90.7	0.6			G1/100
BL	(0°-30°)	502.0	3.6	B2/1000		
BM	(30°-60°)	462.5	3.3	B1/1000		
BH	(60°-80°)	149.4	1.1	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: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9
2.5°	2637.2	2640.4	2651.8	2656.8	2668.8	2689.1	2699.2	2699.8	2716.3	2722.6	2727.7
5°	2450.6	2469.6	2488.6	2508.8	2545.5	2594.2	2642.3	2646.7	2699.8	2739.1	2759.9
7.5°	2289.9	2307.0	2329.8	2362.0	2413.9	2490.5	2570.8	2580.3	2680.9	2770.1	2816.9
10°	2124.8	2138.7	2171.6	2219.1	2290.6	2393.0	2501.2	2517.0	2663.8	2811.8	2894.0
12.5°	1948.3	1956.6	1996.4	2064.7	2169.7	2300.1	2442.4	2463.3	2653.0	2859.9	2985.1
15°	1814.2	1818.0	1856.0	1926.8	2047.0	2216.6	2396.8	2422.1	2655.6	2917.4	3084.4
17.5°	1780.1	1782.0	1802.2	1850.9	1957.2	2141.9	2360.8	2391.8	2663.2	2973.7	3184.4
20°	1918.6	1905.3	1884.4	1876.9	1922.4	2097.0	2339.3	2374.1	2673.3	3023.7	3274.2
22.5°	2298.8	2259.6	2172.9	2057.1	1986.9	2100.2	2345.0	2379.8	2705.5	3085.1	3378.0
25°	2863.0	2808.6	2661.3	2433.5	2214.7	2191.2	2392.4	2427.8	2768.2	3158.5	3477.3
27.5°	3505.1	3451.3	3271.1	2945.9	2572.7	2371.5	2501.2	2534.1	2861.1	3223.6	3553.2
30°	4120.0	4104.8	3892.3	3522.8	3023.1	2663.8	2641.6	2669.5	2930.1	3262.8	3613.3
32.5°	4641.2	4617.2	4446.4	4087.1	3538.6	3014.9	2806.7	2815.0	2982.0	3313.4	3691.7
35°	5124.5	5094.8	4944.9	4605.2	4067.5	3443.8	3061.0	3049.0	3095.2	3415.3	3805.6
37.5°	5546.4	5573.6	5407.3	5084.0	4541.9	3889.7	3403.9	3367.8	3272.3	3581.0	3970.7
40°	5899.4	5899.4	5812.8	5543.3	5054.3	4350.9	3791.7	3744.2	3538.6	3836.6	4180.1
42.5°	6026.6	6053.8	6086.0	5933.6	5512.9	4830.4	4223.7	4174.4	3913.8	4199.1	4444.5
45°	6034.2	6077.2	6242.3	6241.6	5927.3	5306.7	4710.8	4687.4	4394.5	4664.6	4772.2
47.5°	5927.3	5981.0	6253.0	6407.4	6255.6	5750.1	5243.4	5214.3	4959.4	5235.2	5115.0
50°	5762.2	5821.6	6137.9	6472.5	6478.9	6136.0	5804.5	5760.9	5581.2	5887.4	5469.3
52.5°	5466.7	5581.9	6034.8	6487.7	6625.6	6469.4	6338.4	6319.5	6277.1	6515.6	5751.4
55°	4834.8	4962.6	5776.1	6492.8	6761.6	6764.8	6838.8	6843.9	6929.3	7102.6	5961.4
57.5°	4536.2	4608.3	5324.4	6516.8	6963.4	7100.1	7348.7	7387.9	7520.1	7659.9	6201.2
60°	4348.3	4433.7	5101.7	6483.9	7280.3	7539.7	7821.2	7834.5	7976.2	8234.9	6525.7
62.5°	4198.4	4282.6	4961.3	6357.4	7636.5	8068.5	8283.0	8284.2	8390.5	8920.0	6894.5
65°	3828.4	3899.2	4677.3	6215.1	7871.8	8591.7	8819.4	8811.2	8897.8	9642.4	7322.7
67.5°	3293.2	3347.6	4097.2	5675.5	7783.2	9067.4	9629.1	9601.9	9496.9	10266.7	7491.0
70°	2546.1	2565.7	3229.3	4729.8	6953.3	9250.2	10411.6	10397.7	9864.4	10154.8	6874.2
71°	2104.6	2169.1	2846.0	4174.4	6397.3	9081.3	10487.5	10495.7	9772.1	9849.9	6449.8
72.5°	1222.1	1277.2	2062.8	3205.9	5431.3	8376.6	10094.0	10153.5	9340.6	8959.2	5509.1
75°	261.9	280.2	764.8	1551.7	2987.7	5871.0	7967.3	8179.2	7613.1	6094.9	3320.4
77.5°	182.2	196.7	327.7	704.1	987.5	2901.0	4949.3	5188.4	4548.2	2290.6	1062.7
80°	144.2	160.7	255.6	347.9	266.9	935.6	2318.4	2464.5	1516.9	511.1	179.0
82.5°	80.3	95.5	199.3	187.9	102.5	177.8	649.0	733.8	303.6	103.1	42.4
85°	23.4	28.5	128.4	136.6	43.6	34.2	110.7	137.3	57.6	27.2	19.0
87.5°	0.0	0.0	62.0	52.5	12.7	5.1	10.1	11.4	11.4	11.4	12.7
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°	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9	2716.9
2.5°	2727.7	2732.1	2716.3	2695.4	2673.3	2646.1	2617.6	2595.5	2594.8	2584.1	2573.3
5°	2761.2	2758.7	2715.0	2648.6	2570.2	2488.6	2410.8	2322.8	2293.7	2257.7	2245.7
7.5°	2823.2	2805.5	2713.1	2567.6	2395.6	2224.8	2048.3	1870.5	1794.6	1726.3	1714.3
10°	2901.0	2867.5	2701.1	2446.2	2130.5	1815.5	1549.2	1307.5	1201.3	1119.7	1115.9
12.5°	2982.0	2930.7	2667.6	2262.7	1783.2	1340.4	1033.6	795.8	707.2	650.3	655.4
15°	3066.7	2990.2	2595.5	2015.4	1387.9	909.6	635.1	495.3	459.9	445.3	449.1
17.5°	3153.4	3031.3	2494.9	1717.4	997.6	587.0	439.6	400.4	400.4	403.6	404.8
20°	3228.7	3053.5	2346.9	1383.4	676.2	427.6	384.6	378.9	382.1	387.1	387.8
22.5°	3303.3	3054.7	2153.9	1045.0	473.2	374.5	366.3	363.7	365.6	371.3	372.0
25°	3364.0	3039.5	1912.3	743.3	377.6	353.0	349.2	347.9	349.2	356.1	356.1
27.5°	3388.7	2984.5	1617.5	522.5	338.4	328.9	327.7	328.9	330.8	335.9	336.5
30°	3391.2	2888.3	1296.2	378.3	306.8	296.7	299.2	303.6	301.7	300.5	301.7
32.5°	3397.6	2777.0	983.0	311.2	280.2	264.4	261.3	261.3	253.7	249.2	246.7
35°	3418.5	2646.1	712.9	279.6	253.0	234.7	222.7	208.8	194.2	186.6	184.7
37.5°	3451.3	2508.8	510.5	258.7	229.0	208.1	185.3	160.7	139.8	134.1	134.1
40°	3511.4	2367.1	377.6	242.3	210.0	184.1	149.9	117.7	98.7	95.5	95.5
42.5°	3606.3	2217.8	301.1	227.7	193.6	159.4	114.5	85.4	71.5	69.6	69.0
45°	3705.0	2053.3	263.2	213.8	175.9	130.9	84.8	63.3	55.0	53.1	53.1
47.5°	3803.7	1878.1	244.8	200.5	158.8	101.8	63.3	50.0	46.2	46.2	46.8
50°	3887.2	1695.3	231.5	186.0	136.6	77.2	50.0	42.4	41.1	43.6	44.3
52.5°	3908.1	1515.7	215.1	167.6	109.4	58.8	41.1	37.3	37.3	37.3	37.3
55°	3895.4	1376.5	193.6	144.9	81.0	46.8	35.4	32.9	32.3	32.3	32.3
57.5°	3938.4	1294.3	155.0	112.6	58.2	38.0	31.0	29.1	27.8	27.2	27.2
60°	4025.1	1240.5	110.7	81.0	43.6	31.6	26.6	24.7	22.8	21.5	21.5
62.5°	4140.2	1193.7	82.2	60.1	33.5	25.3	22.1	20.2	17.7	16.4	16.4
65°	4228.8	1110.2	62.6	44.9	25.3	20.2	17.1	16.4	12.7	11.4	10.8
67.5°	4093.4	926.7	50.6	32.9	19.0	15.8	13.3	12.7	7.6	6.3	6.3
70°	3510.8	645.2	40.5	24.0	13.9	12.7	10.8	8.2	5.7	5.1	5.1
71°	3183.8	539.0	36.7	20.2	12.0	12.0	10.1	7.0	5.1	4.4	4.4
72.5°	2644.8	382.7	31.0	15.8	10.8	12.7	10.8	6.3	5.1	4.4	3.8
75°	1535.3	160.0	21.5	10.8	8.2	15.2	13.9	5.7	3.8	3.2	3.2
77.5°	461.8	58.8	12.0	7.0	6.3	13.3	15.8	5.1	1.9	0.6	0.6
80°	84.1	25.3	7.6	4.4	4.4	8.2	12.0	2.5	0.0	0.0	0.0
82.5°	29.7	12.7	4.4	2.5	1.9	3.8	5.7	0.0	0.0	0.0	0.0
85°	17.1	8.9	2.5	1.3	0.0	0.6	1.3	0.0	0.0	0.0	0.0
87.5°	11.4	2.5	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)