

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: P321518

Luminaire Tested: **GAN-SA4B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321518
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-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 14827 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

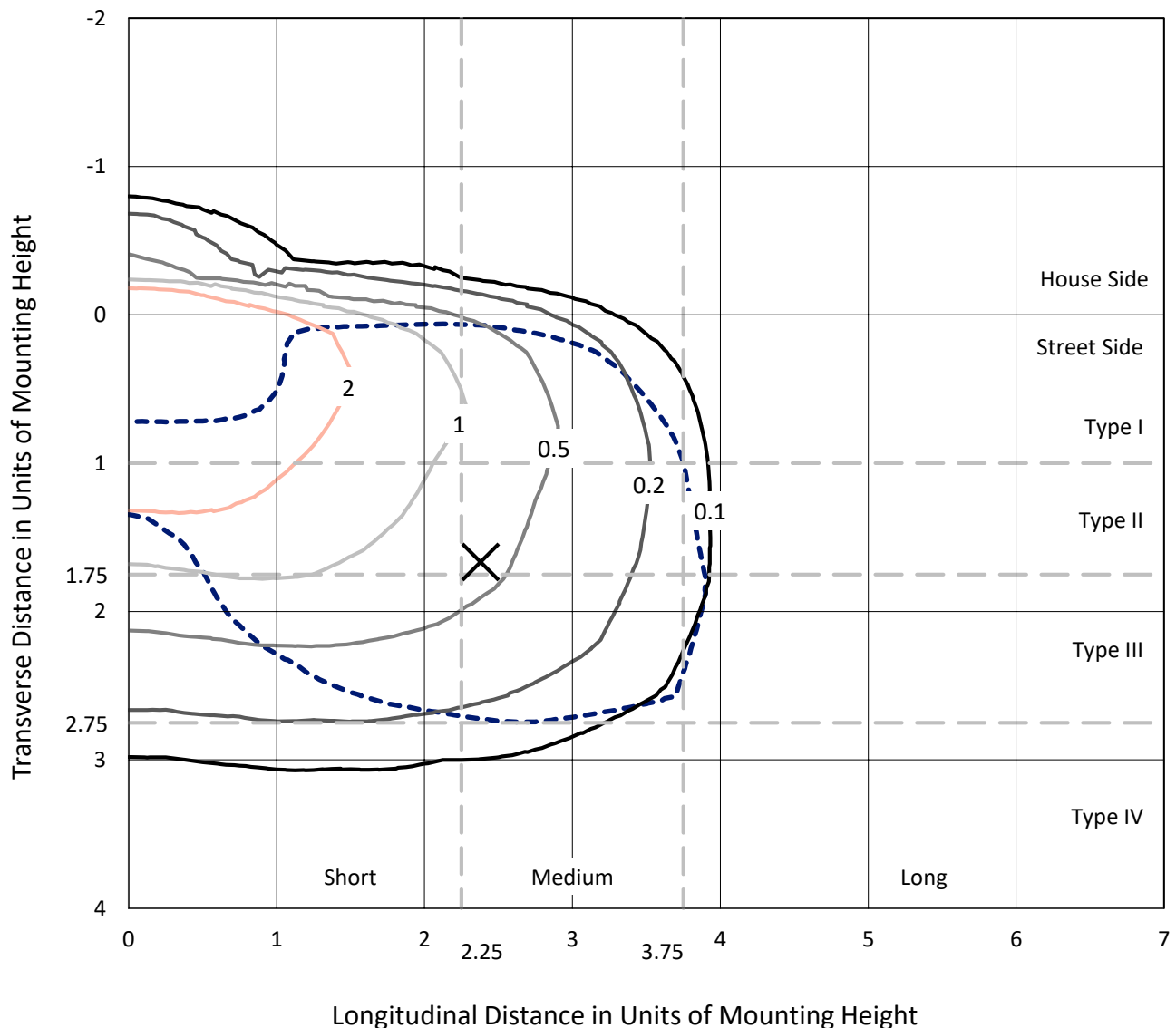
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

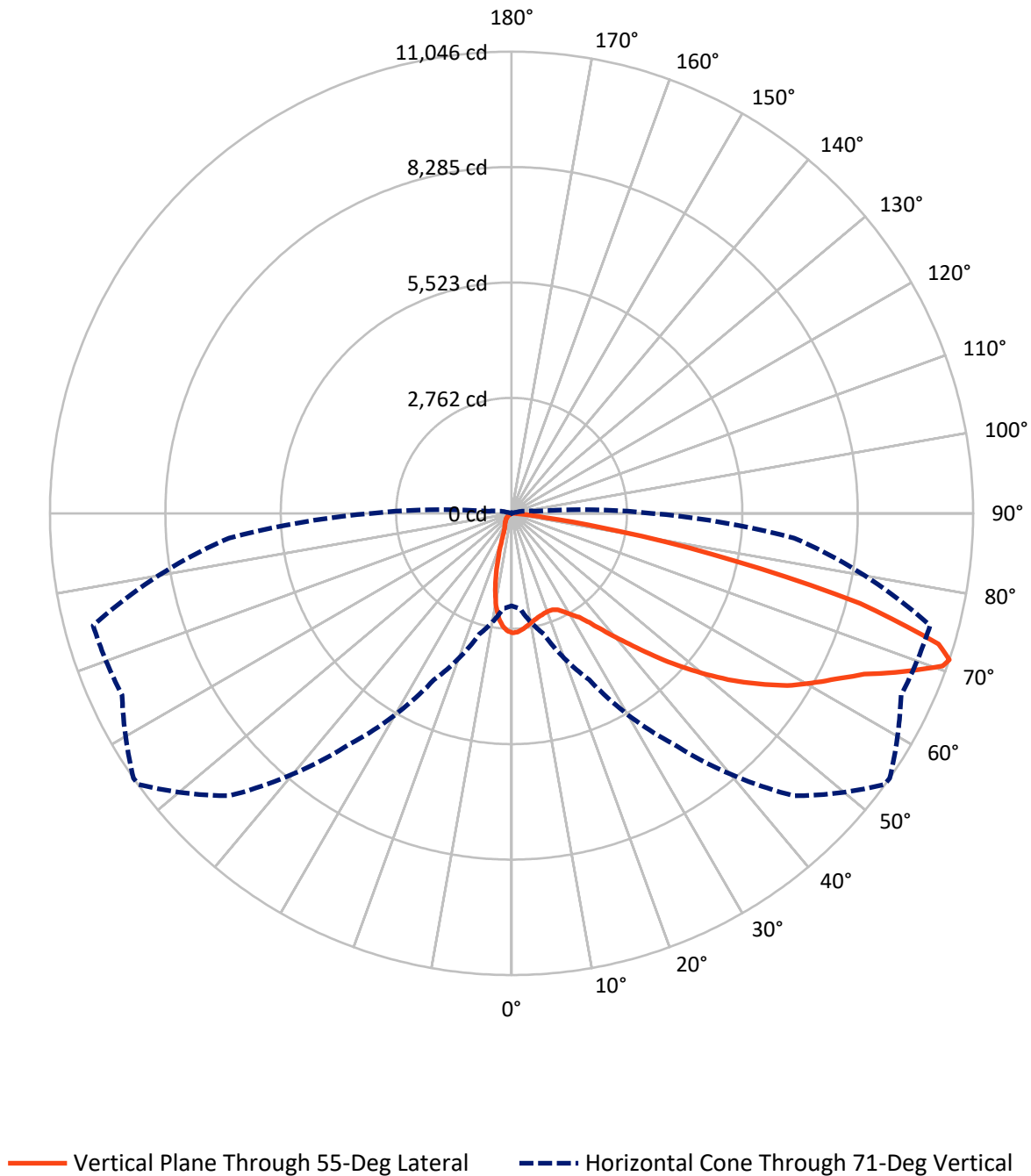
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1173.9	0.0	1173.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	13653.1	0.0	13653.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	14827.0	0.0	14827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	1.6
10°-20°	550.4	3.7
20°-30°	884.5	6.0
30°-40°	1502.9	10.1
40°-50°	2332.6	15.7
50°-60°	3136.1	21.2
60°-70°	3836.5	25.9
70°-80°	2243.1	15.1
80°-90°	97.0	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°	14827.0	100.0
0°-180°	14827.0	100.0

Coefficient of Utilization



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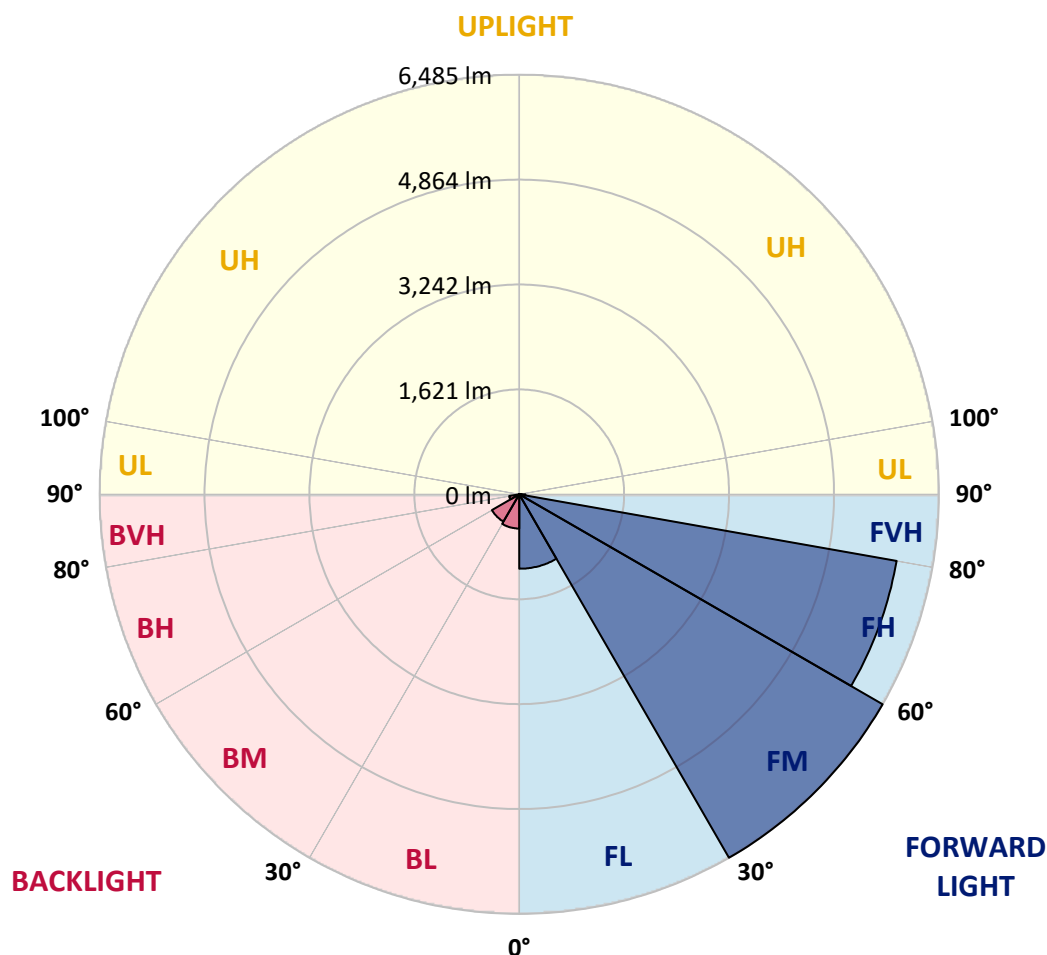
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1150.4	7.8			
FM	(30°-60°)	6484.9	43.7			
FH	(60°-80°)	5922.4	39.9			G3/7500
FVH	(80°-90°)	95.4	0.6			G1/100
BL	(0°-30°)	528.4	3.6	B2/1000		
BM	(30°-60°)	486.7	3.3	B1/1000		
BH	(60°-80°)	157.3	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°	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4
2.5°	2775.6	2778.9	2790.9	2796.2	2808.8	2830.1	2840.8	2841.5	2858.8	2865.4	2870.8
5°	2579.2	2599.1	2619.1	2640.4	2679.0	2730.3	2780.9	2785.5	2841.5	2882.7	2904.7
7.5°	2410.1	2428.0	2452.0	2485.9	2540.5	2621.1	2705.6	2715.6	2821.5	2915.4	2964.6
10°	2236.3	2250.9	2285.6	2335.5	2410.7	2518.6	2632.4	2649.1	2803.5	2959.3	3045.9
12.5°	2050.5	2059.2	2101.1	2173.0	2283.6	2420.7	2570.5	2592.5	2792.2	3009.9	3141.7
15°	1909.4	1913.4	1953.3	2027.9	2154.4	2332.8	2522.6	2549.2	2794.9	3070.5	3246.2
17.5°	1873.4	1875.4	1896.8	1948.0	2059.9	2254.3	2484.6	2517.2	2802.9	3129.7	3351.4
20°	2019.3	2005.3	1983.3	1975.3	2023.2	2207.0	2462.0	2498.6	2813.5	3182.3	3446.0
22.5°	2419.4	2378.1	2286.9	2165.1	2091.2	2210.3	2468.0	2504.6	2847.5	3246.9	3555.2
25°	3013.2	2956.0	2800.9	2561.2	2330.8	2306.2	2517.9	2555.2	2913.4	3324.1	3659.7
27.5°	3689.0	3632.4	3442.6	3100.4	2707.6	2495.9	2632.4	2667.0	3011.2	3392.7	3739.6
30°	4336.1	4320.1	4096.4	3707.6	3181.7	2803.5	2780.2	2809.5	3083.8	3434.0	3802.8
32.5°	4884.7	4859.4	4679.6	4301.5	3724.3	3173.0	2954.0	2962.6	3138.4	3487.3	3885.4
35°	5393.3	5362.0	5204.2	4846.7	4280.8	3624.4	3221.6	3209.0	3257.6	3594.4	4005.2
37.5°	5837.4	5866.0	5690.9	5350.7	4780.2	4093.8	3582.5	3544.5	3444.0	3768.9	4179.0
40°	6208.9	6208.9	6117.7	5834.1	5319.4	4579.1	3990.6	3940.6	3724.3	4037.8	4399.3
42.5°	6342.7	6371.3	6405.3	6244.8	5802.1	5083.7	4445.3	4393.4	4119.1	4419.3	4677.6
45°	6350.7	6396.0	6569.7	6569.1	6238.2	5585.1	4957.9	4933.3	4625.0	4909.3	5022.5
47.5°	6238.2	6294.8	6581.0	6743.5	6583.7	6051.8	5518.5	5487.9	5219.6	5509.8	5383.3
50°	6064.4	6127.0	6459.9	6812.1	6818.7	6457.9	6109.0	6063.1	5874.0	6196.2	5756.2
52.5°	5753.5	5874.7	6351.4	6828.0	6973.2	6808.7	6670.9	6650.9	6606.3	6857.3	6053.1
55°	5088.4	5222.9	6079.1	6833.4	7116.3	7119.6	7197.5	7202.9	7292.7	7475.2	6274.1
57.5°	4774.2	4850.1	5603.7	6858.7	7328.7	7472.5	7734.1	7775.4	7914.6	8061.7	6526.4
60°	4576.4	4666.3	5369.4	6824.0	7662.2	7935.2	8231.5	8245.4	8394.6	8666.9	6868.0
62.5°	4418.7	4507.2	5221.6	6690.9	8037.1	8491.8	8717.5	8718.8	8830.6	9387.9	7256.1
65°	4029.2	4103.7	4922.6	6541.1	8284.7	9042.4	9282.0	9273.4	9364.6	10148.2	7706.8
67.5°	3465.9	3523.2	4312.1	5973.2	8191.5	9543.0	10134.2	10105.6	9995.1	10805.3	7883.9
70°	2679.7	2700.3	3398.7	4977.9	7318.0	9735.4	10957.7	10943.1	10381.9	10687.4	7234.8
71°	2215.0	2282.9	2995.3	4393.4	6732.8	9557.7	11037.6	11046.3	10284.7	10366.6	6788.1
72.5°	1286.2	1344.2	2171.0	3374.1	5716.2	8816.0	10623.5	10686.1	9830.6	9429.2	5798.1
75°	275.6	294.9	804.9	1633.1	3144.4	6178.9	8385.2	8608.3	8012.4	6414.6	3494.6
77.5°	191.7	207.1	344.9	741.0	1039.3	3053.2	5208.9	5460.6	4786.8	2410.7	1118.5
80°	151.8	169.1	269.0	366.2	281.0	984.7	2440.0	2593.8	1596.5	537.9	188.4
82.5°	84.6	100.5	209.7	197.7	107.9	187.1	683.1	772.3	319.6	108.5	44.6
85°	24.6	30.0	135.1	143.8	45.9	36.0	116.5	144.5	60.6	28.6	20.0
87.5°	0.0	0.0	65.2	55.3	13.3	5.3	10.7	12.0	12.0	12.0	13.3
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°	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4
2.5°	2870.8	2875.4	2858.8	2836.8	2813.5	2784.9	2754.9	2731.6	2730.9	2719.6	2708.3
5°	2906.0	2903.4	2857.4	2787.5	2705.0	2619.1	2537.2	2444.7	2414.0	2376.1	2363.4
7.5°	2971.3	2952.6	2855.4	2702.3	2521.2	2341.5	2155.7	1968.7	1888.8	1816.9	1804.2
10°	3053.2	3017.9	2842.8	2574.5	2242.3	1910.7	1630.4	1376.1	1264.3	1178.4	1174.4
12.5°	3138.4	3084.5	2807.5	2381.4	1876.8	1410.7	1087.9	837.5	744.3	684.4	689.7
15°	3227.6	3147.0	2731.6	2121.1	1460.7	957.4	668.4	521.3	484.0	468.7	472.7
17.5°	3318.8	3190.3	2625.8	1807.5	1049.9	617.8	462.7	421.4	421.4	424.8	426.1
20°	3398.0	3213.6	2470.0	1456.0	711.7	450.1	404.8	398.8	402.1	407.4	408.1
22.5°	3476.6	3215.0	2266.9	1099.8	498.0	394.1	385.5	382.8	384.8	390.8	391.5
25°	3540.5	3199.0	2012.6	782.3	397.5	371.5	367.5	366.2	367.5	374.8	374.8
27.5°	3566.5	3141.1	1702.3	549.9	356.2	346.2	344.9	346.2	348.2	353.5	354.2
30°	3569.1	3039.9	1364.1	398.1	322.9	312.2	314.9	319.6	317.6	316.2	317.6
32.5°	3575.8	2922.7	1034.6	327.6	294.9	278.3	275.0	275.0	267.0	262.3	259.6
35°	3597.8	2784.9	750.3	294.3	266.3	247.0	234.3	219.7	204.4	196.4	194.4
37.5°	3632.4	2640.4	537.3	272.3	241.0	219.0	195.1	169.1	147.1	141.1	141.1
40°	3695.6	2491.3	397.5	255.0	221.0	193.7	157.8	123.8	103.9	100.5	100.5
42.5°	3795.5	2334.2	316.9	239.7	203.7	167.8	120.5	89.9	75.2	73.2	72.6
45°	3899.4	2161.1	277.0	225.0	185.1	137.8	89.2	66.6	57.9	55.9	55.9
47.5°	4003.2	1976.6	257.6	211.0	167.1	107.2	66.6	52.6	48.6	48.6	49.3
50°	4091.1	1784.2	243.7	195.7	143.8	81.2	52.6	44.6	43.3	45.9	46.6
52.5°	4113.1	1595.2	226.4	176.4	115.2	61.9	43.3	39.3	39.3	39.3	39.3
55°	4099.8	1448.7	203.7	152.5	85.2	49.3	37.3	34.6	34.0	34.0	34.0
57.5°	4145.0	1362.1	163.1	118.5	61.2	39.9	32.6	30.6	29.3	28.6	28.6
60°	4236.2	1305.6	116.5	85.2	45.9	33.3	28.0	26.0	24.0	22.6	22.6
62.5°	4357.4	1256.3	86.5	63.2	35.3	26.6	23.3	21.3	18.6	17.3	17.3
65°	4450.6	1168.4	65.9	47.3	26.6	21.3	18.0	17.3	13.3	12.0	11.3
67.5°	4308.1	975.3	53.3	34.6	20.0	16.6	14.0	13.3	8.0	6.7	6.7
70°	3695.0	679.1	42.6	25.3	14.6	13.3	11.3	8.7	6.0	5.3	5.3
71°	3350.8	567.2	38.6	21.3	12.6	12.6	10.7	7.3	5.3	4.7	4.7
72.5°	2783.5	402.8	32.6	16.6	11.3	13.3	11.3	6.7	5.3	4.7	4.0
75°	1615.8	168.4	22.6	11.3	8.7	16.0	14.6	6.0	4.0	3.3	3.3
77.5°	486.0	61.9	12.6	7.3	6.7	14.0	16.6	5.3	2.0	0.7	0.7
80°	88.5	26.6	8.0	4.7	4.7	8.7	12.6	2.7	0.0	0.0	0.0
82.5°	31.3	13.3	4.7	2.7	2.0	4.0	6.0	0.0	0.0	0.0	0.0
85°	18.0	9.3	2.7	1.3	0.0	0.7	1.3	0.0	0.0	0.0	0.0
87.5°	12.0	2.7	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)