

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: P323837

Luminaire Tested: **GAN-SA3B-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14161 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

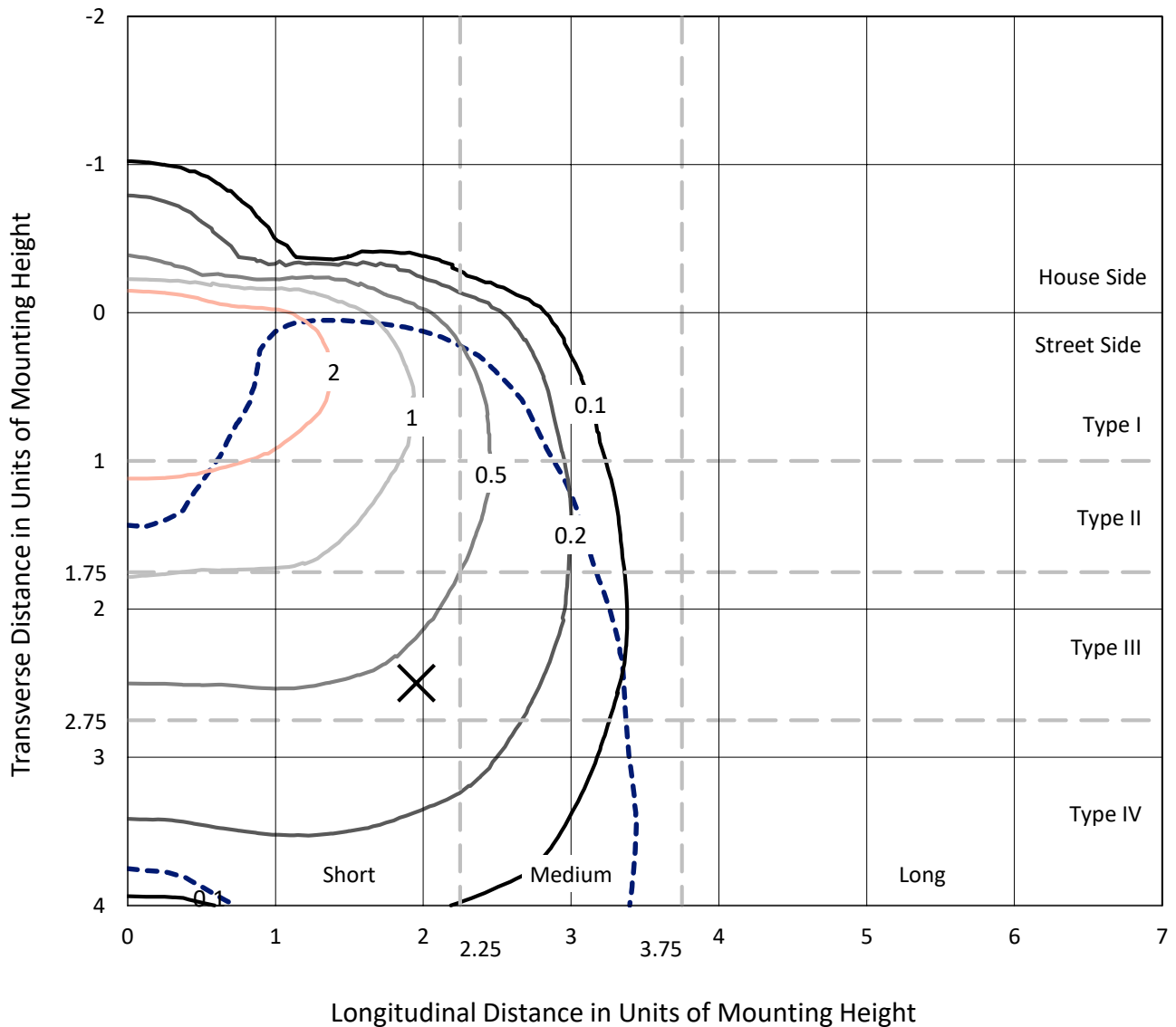
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

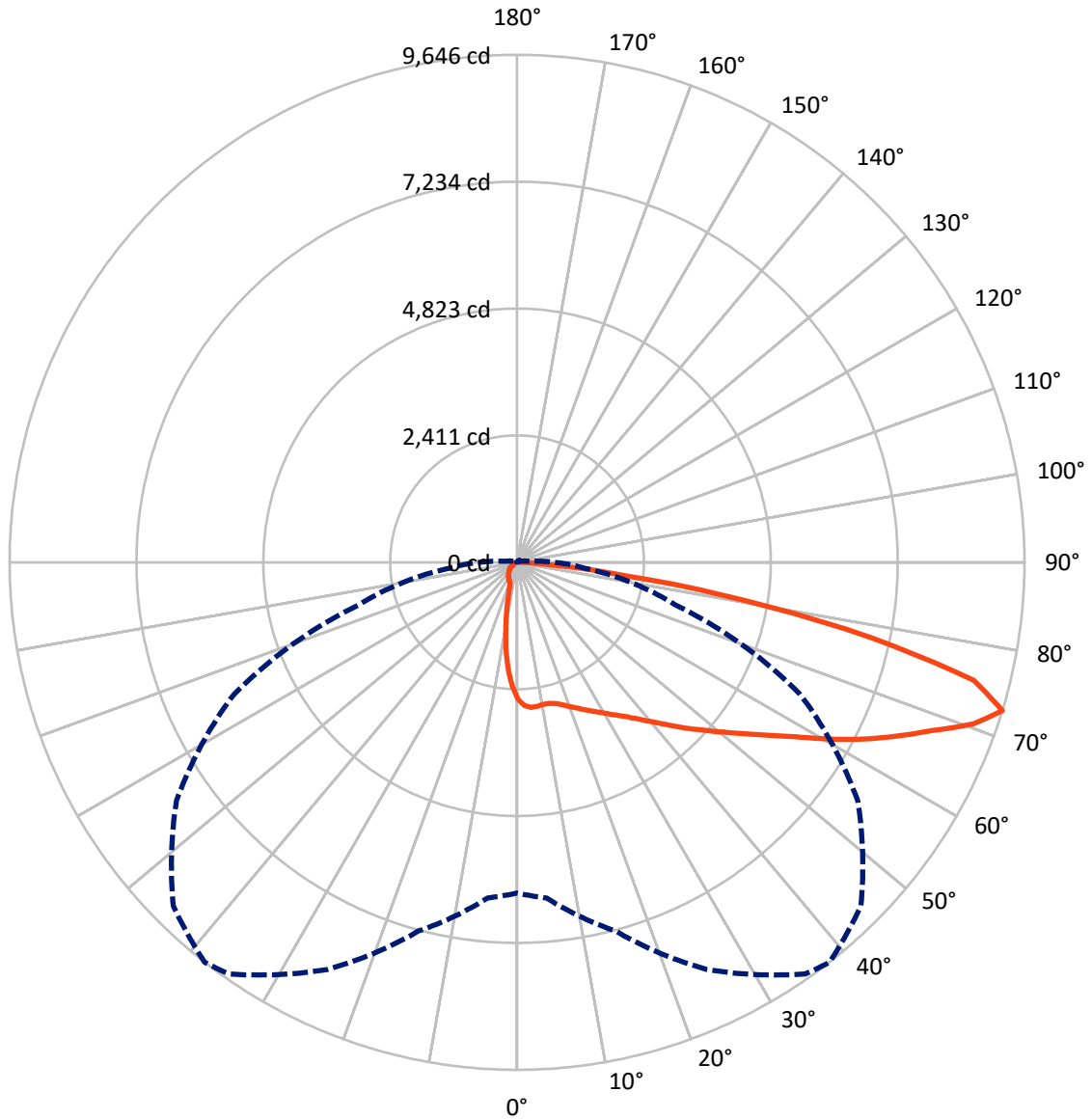
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.7	0.0	1191.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12969.3	0.0	12969.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	14161.0	0.0	14161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	1.6
10°-20°	542.7	3.8
20°-30°	863.1	6.1
30°-40°	1297.6	9.2
40°-50°	1979.5	14.0
50°-60°	2797.7	19.8
60°-70°	3509.3	24.8
70°-80°	2623.9	18.5
80°-90°	325.4	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°	14161.0	100.0
0°-180°	14161.0	100.0

Coefficient of Utilization



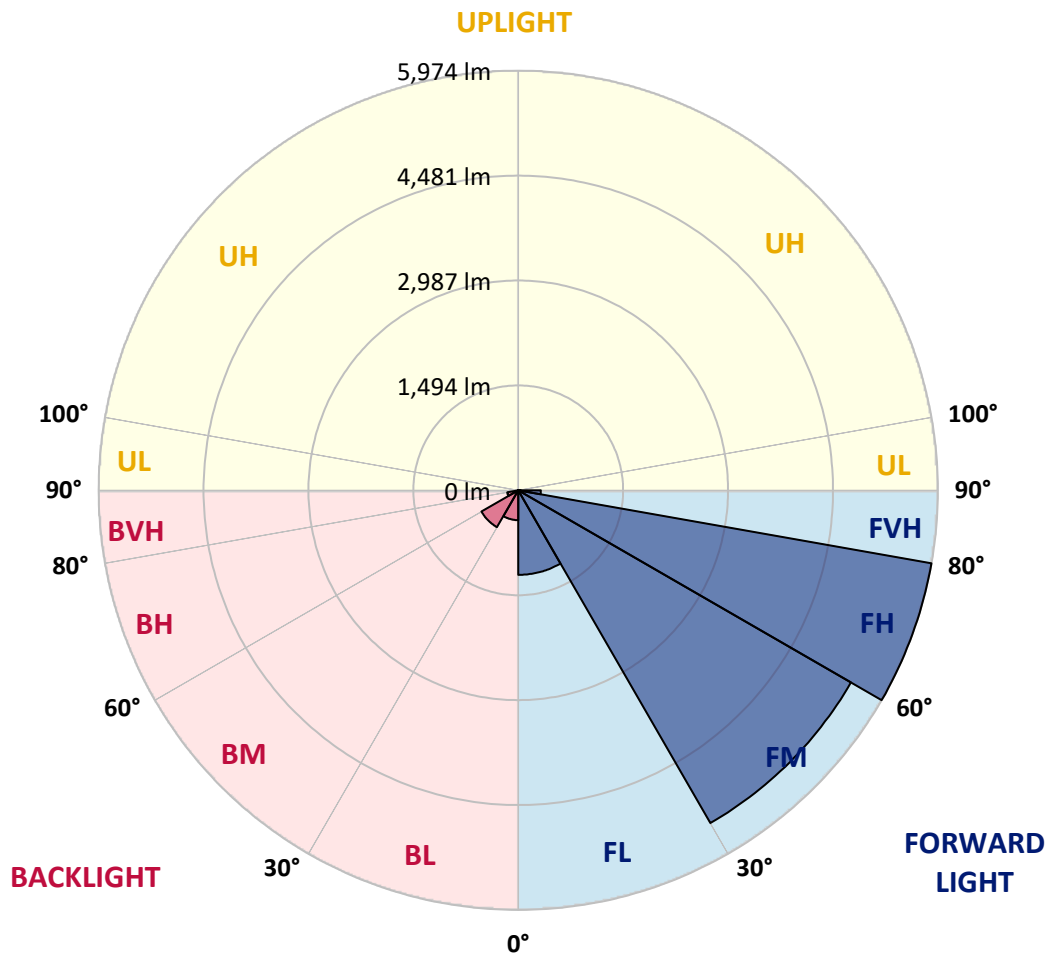
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.3	8.5			
FM (30°-60°)	5469.6	38.6			
FH (60°-80°)	5974.0	42.2			G3/7500
FVH (80°-90°)	322.3	2.3			G3/500
BL (0°-30°)	424.3	3.0	B1/500		
BM (30°-60°)	605.2	4.3	B1/1000		
BH (60°-80°)	159.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2
2.5°	2764.1	2764.7	2758.2	2747.7	2734.1	2727.1	2715.3	2696.5	2676.5	2640.6	2601.8
5°	2820.6	2820.6	2812.4	2798.2	2776.5	2770.0	2747.7	2717.7	2676.5	2618.3	2553.0
7.5°	2814.7	2815.9	2804.7	2790.0	2768.2	2762.4	2735.3	2701.8	2650.6	2580.0	2496.5
10°	2784.1	2787.1	2778.2	2771.2	2751.2	2744.7	2719.4	2685.9	2634.7	2559.5	2463.6
12.5°	2753.0	2755.9	2758.8	2765.3	2753.0	2750.6	2730.6	2702.4	2653.6	2575.3	2467.1
15°	2733.0	2738.8	2760.0	2785.3	2788.2	2785.9	2772.9	2746.5	2697.1	2615.9	2492.4
17.5°	2733.0	2742.4	2786.5	2834.7	2851.8	2853.5	2842.3	2805.3	2746.5	2659.4	2515.9
20°	2755.9	2768.8	2837.6	2905.9	2934.1	2934.1	2912.3	2860.6	2791.8	2698.8	2531.8
22.5°	2814.7	2831.8	2918.2	2997.0	3027.0	3020.5	2991.1	2915.9	2838.8	2743.5	2551.8
25°	2930.6	2943.5	3033.5	3112.9	3131.1	3116.4	3079.4	2982.9	2898.8	2804.1	2588.3
27.5°	3079.9	3081.7	3174.6	3241.7	3230.5	3220.5	3174.0	3067.0	2985.3	2890.6	2651.2
30°	3244.0	3244.0	3325.8	3376.9	3342.8	3334.6	3288.1	3168.7	3095.8	3008.2	2740.6
32.5°	3402.8	3409.9	3476.3	3508.7	3470.5	3462.2	3416.9	3297.5	3242.9	3187.6	2880.0
35°	3556.3	3561.6	3624.5	3642.2	3605.7	3608.1	3575.7	3474.6	3454.0	3446.9	3089.9
37.5°	3705.1	3706.3	3770.4	3781.6	3763.3	3783.3	3786.3	3696.9	3735.1	3792.1	3385.8
40°	3841.0	3842.1	3905.7	3934.5	3965.6	3991.5	4014.5	3966.8	4093.3	4225.6	3738.0
42.5°	3949.8	3962.1	4042.7	4097.4	4179.7	4229.1	4291.5	4289.1	4519.6	4718.4	4163.8
45°	4045.6	4066.8	4179.1	4275.0	4416.1	4494.9	4592.6	4669.0	4999.5	5267.1	4594.9
47.5°	4172.1	4192.1	4320.3	4477.3	4665.5	4769.0	4930.7	5096.0	5527.1	5805.8	5016.0
50°	4350.3	4341.4	4467.9	4693.1	4934.9	5070.7	5301.2	5548.8	6050.5	6275.2	5263.6
52.5°	4540.2	4536.7	4630.2	4927.8	5252.4	5411.2	5715.9	6017.0	6551.0	6598.6	5377.1
55°	4775.5	4750.2	4829.0	5195.4	5629.4	5800.0	6158.7	6480.4	6949.7	6780.9	5434.2
57.5°	5021.9	4980.1	5055.4	5493.6	6054.6	6256.3	6649.2	6932.1	7215.0	6905.6	5433.6
60°	5276.5	5227.1	5316.5	5866.4	6582.7	6816.2	7180.9	7237.3	7462.6	6968.5	5393.6
62.5°	5489.4	5460.0	5592.9	6265.2	7172.6	7402.0	7582.5	7514.9	7671.3	7017.4	5300.1
65°	5714.7	5716.5	5931.1	6730.4	7799.5	7954.2	7969.5	7874.8	7846.0	7007.4	4983.7
67.5°	6019.3	6047.6	6405.7	7362.0	8409.4	8528.8	8527.6	8264.7	7973.6	6609.8	4282.0
70°	6341.6	6408.1	6952.7	8084.8	9075.2	9196.3	9134.0	8512.9	7507.8	5344.8	3030.5
72.5°	6287.5	6402.8	7256.7	8540.6	9553.3	9645.6	9240.4	7903.1	5934.1	3106.4	1290.3
75°	4850.8	4984.3	6653.9	8088.9	9051.6	8968.7	7939.5	6149.9	3242.9	866.9	290.5
77.5°	2562.4	2633.6	4395.6	6162.2	7057.9	6884.4	5592.9	3411.6	988.6	214.7	130.6
80°	1342.1	1358.5	1915.5	3496.3	4356.1	4357.3	3314.6	1498.5	407.6	110.0	87.6
82.5°	718.7	732.8	1012.1	1615.5	2282.5	2069.0	1269.1	824.5	237.0	62.3	84.1
85°	172.9	175.8	574.0	738.1	897.5	641.0	377.0	692.2	64.1	36.5	68.2
87.5°	66.5	67.6	212.9	319.3	228.8	148.2	176.4	258.2	8.2	14.1	10.6
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°	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2	2604.2
2.5°	2578.3	2563.0	2525.4	2477.7	2435.4	2404.8	2358.9	2328.9	2308.9	2308.3	2300.7
5°	2513.0	2481.8	2400.7	2304.2	2216.6	2137.8	2044.9	1971.4	1916.7	1907.8	1889.0
7.5°	2443.0	2391.9	2267.2	2116.6	1969.6	1820.2	1646.7	1539.1	1446.8	1402.6	1397.9
10°	2400.1	2328.3	2151.3	1933.7	1703.2	1460.3	1233.3	1076.2	962.7	930.4	906.3
12.5°	2391.3	2296.6	2061.9	1762.0	1432.6	1111.5	860.4	693.4	602.8	574.0	566.4
15°	2400.1	2281.9	1986.6	1592.0	1158.6	788.7	577.5	480.5	446.4	438.1	437.6
17.5°	2405.4	2264.2	1901.4	1403.2	892.8	563.4	442.3	414.0	408.7	408.1	409.3
20°	2404.8	2237.2	1799.6	1192.7	664.0	442.8	399.9	394.0	392.9	393.4	392.9
22.5°	2400.7	2205.4	1687.9	975.7	501.7	395.8	381.7	378.2	377.6	377.6	377.6
25°	2408.3	2180.1	1565.0	768.1	413.4	374.0	365.2	362.3	361.7	361.7	360.5
27.5°	2436.0	2166.0	1430.3	591.1	373.5	354.6	347.6	347.0	345.2	344.6	345.8
30°	2480.7	2166.0	1282.7	459.9	349.3	334.6	329.3	328.2	327.6	327.0	327.6
32.5°	2559.5	2182.5	1121.5	382.3	326.4	312.3	308.8	310.5	308.8	308.8	308.8
35°	2701.8	2231.9	952.7	333.5	302.3	290.5	287.0	289.4	288.2	288.2	287.6
37.5°	2909.4	2323.6	782.8	304.1	281.1	268.8	264.1	267.6	266.4	266.4	265.8
40°	3162.3	2457.1	621.0	281.7	260.5	247.6	243.5	245.2	242.3	242.3	243.5
42.5°	3474.6	2626.5	479.9	259.9	239.9	227.6	225.2	223.5	218.2	215.2	215.8
45°	3821.6	2802.9	374.0	238.8	220.5	210.5	207.0	202.3	193.5	187.6	188.2
47.5°	4131.5	2938.8	304.1	218.2	202.9	195.3	190.0	181.1	168.2	161.1	161.7
50°	4294.4	2959.4	258.8	197.6	186.4	178.8	171.1	157.6	142.3	134.7	134.1
52.5°	4336.2	2862.9	225.2	178.8	170.0	161.1	151.1	132.9	115.9	107.6	106.4
55°	4351.4	2715.9	195.3	161.1	152.3	142.3	129.4	108.8	92.9	84.7	84.1
57.5°	4300.9	2496.5	171.7	145.3	134.7	122.3	106.4	87.0	71.7	65.3	65.3
60°	4188.5	2199.5	153.5	128.2	116.4	102.3	85.9	67.6	53.5	48.2	48.2
62.5°	3964.5	1814.9	136.4	110.6	99.4	84.7	69.4	51.2	37.6	34.7	35.3
65°	3541.6	1376.8	119.4	94.7	84.7	70.0	54.1	36.5	25.3	25.3	26.5
67.5°	2888.2	956.3	101.7	80.6	72.9	57.0	41.2	25.3	17.6	20.0	22.3
70°	1912.0	536.4	87.0	66.5	62.3	45.3	30.6	17.1	14.1	18.8	22.9
72.5°	721.6	208.8	72.9	53.5	54.1	34.7	21.8	12.9	12.9	20.6	27.1
75°	201.1	102.3	52.3	39.4	42.3	25.3	15.9	11.2	12.4	23.5	31.8
77.5°	118.2	75.3	34.1	22.9	28.8	17.6	10.6	8.8	10.6	20.0	30.6
80°	95.3	40.0	20.0	11.8	15.9	10.0	7.1	5.3	2.9	7.6	15.9
82.5°	95.3	24.1	9.4	8.2	8.2	5.3	3.5	2.4	0.6	0.0	4.1
85°	64.1	10.0	5.9	5.3	4.1	1.8	1.2	0.6	0.0	0.0	0.0
87.5°	10.6	4.1	2.4	1.2	0.6	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)