

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: P192773

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15702.7 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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: 28.75 FT

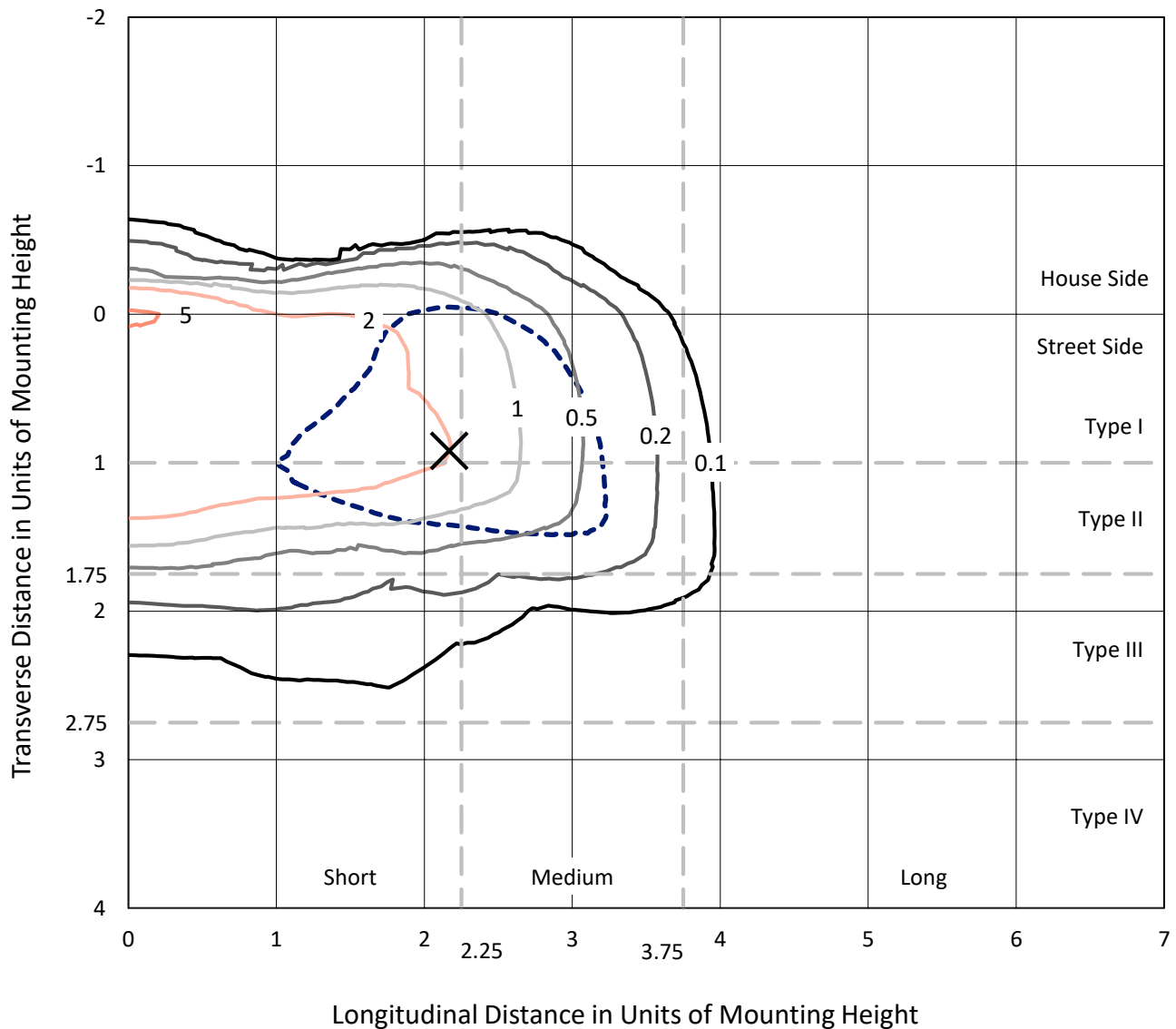


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

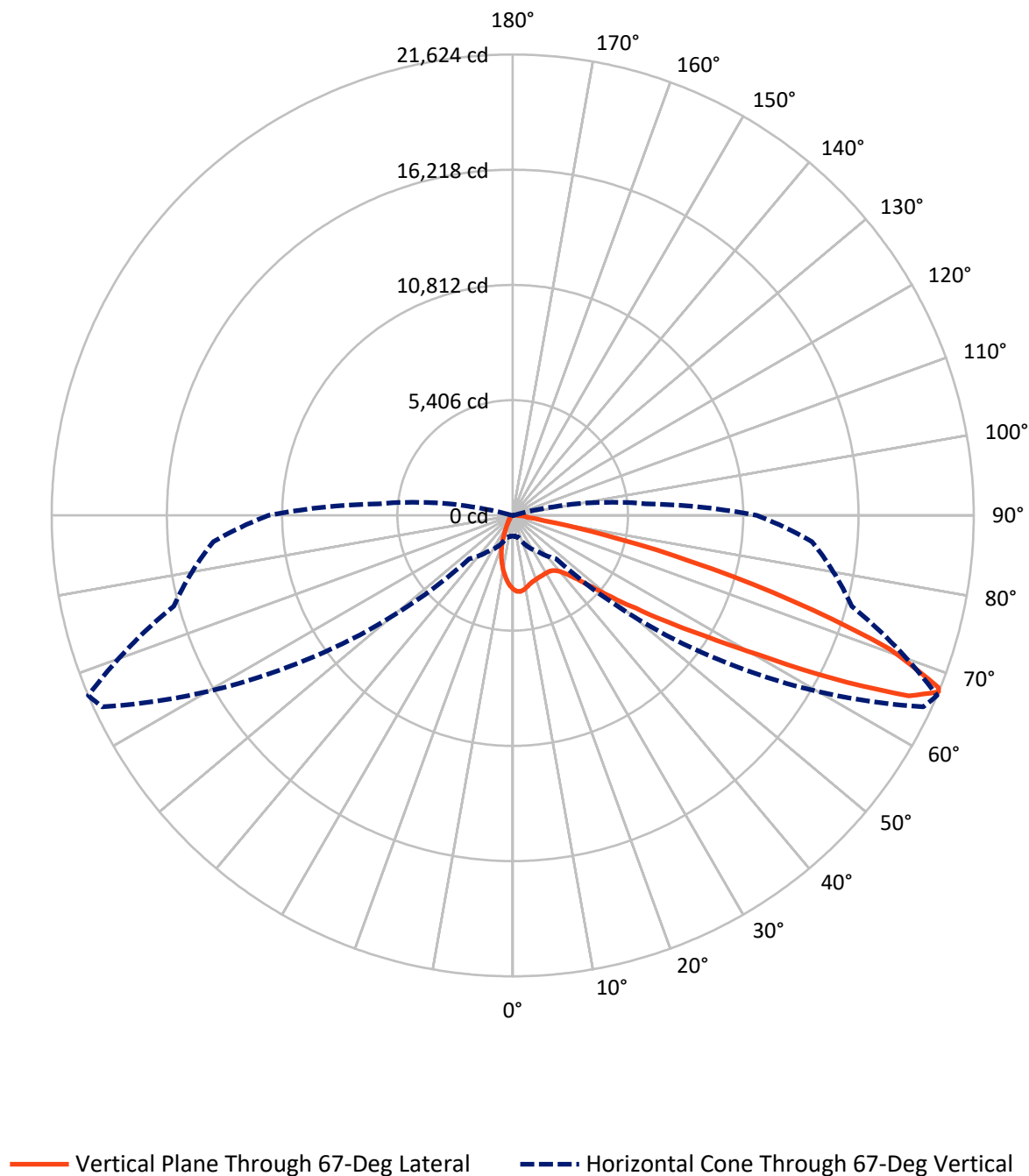


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1630.4	0.0	1630.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14072.3	0.0	14072.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	15702.7	0.0	15702.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.8
10°-20°	599.7	3.8
20°-30°	872.0	5.6
30°-40°	1360.3	8.7
40°-50°	2409.7	15.3
50°-60°	3813.1	24.3
60°-70°	4367.4	27.8
70°-80°	1811.6	11.5
80°-90°	187.1	1.2
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°	15702.7	100.0
0°-180°	15702.7	100.0

Coefficient of Utilization



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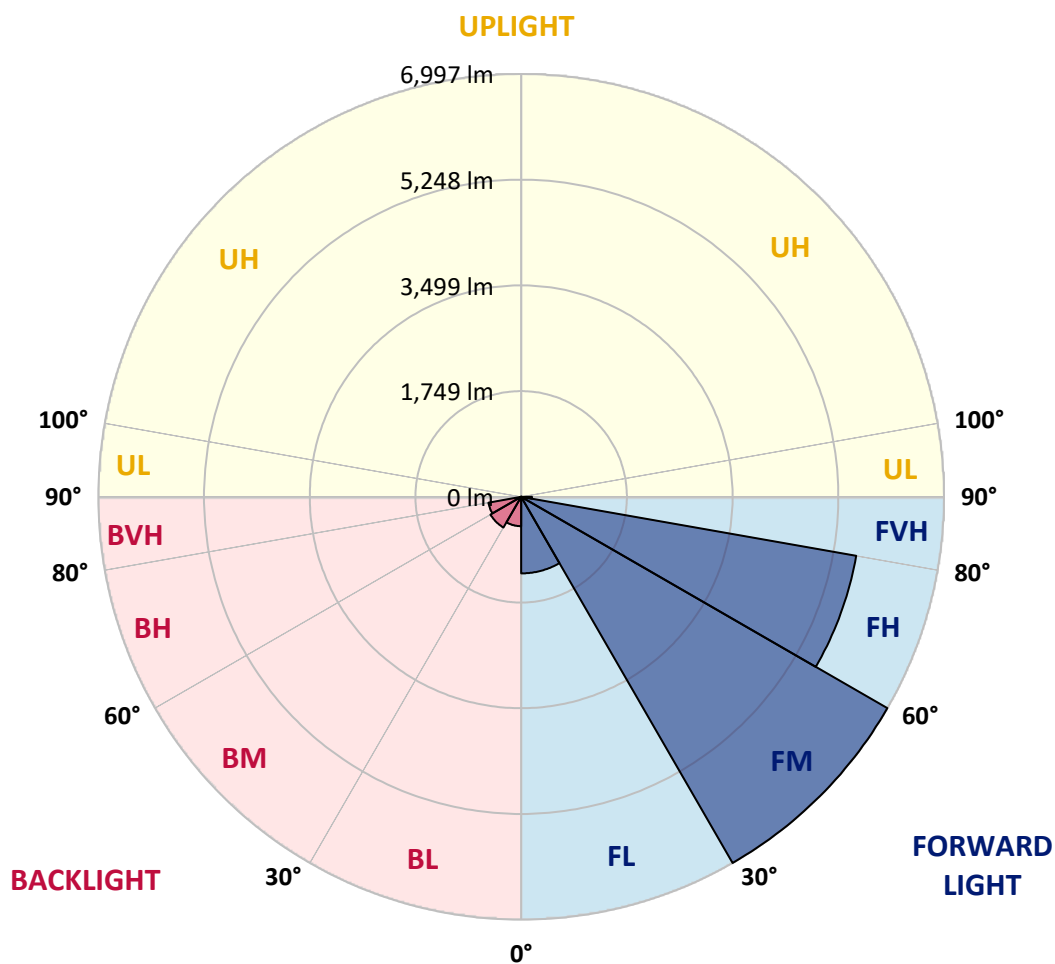
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1267.0	8.1			
FM	(30°-60°)	6997.2	44.6			
FH	(60°-80°)	5629.5	35.9			G3/7500
FVH	(80°-90°)	178.7	1.1			G2/225
BL	(0°-30°)	486.5	3.1	B1/500		
BM	(30°-60°)	586.0	3.7	B1/1000		
BH	(60°-80°)	549.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.4	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1
2.5°	3580.3	3587.6	3586.7	3592.2	3605.0	3605.9	3593.1	3568.4	3562.8	3530.8	3475.0
5°	3301.9	3322.9	3335.6	3387.9	3446.6	3517.0	3570.1	3589.3	3586.7	3563.8	3479.5
7.5°	2984.0	3005.0	3019.7	3081.1	3158.9	3279.9	3418.1	3531.7	3541.7	3566.6	3475.9
10°	2772.5	2776.1	2796.3	2854.8	2936.4	3060.1	3224.9	3423.6	3453.9	3544.6	3466.7
12.5°	2598.4	2601.1	2627.6	2690.9	2777.9	2902.5	3075.6	3305.5	3352.2	3517.0	3464.8
15°	2474.7	2484.9	2508.7	2574.5	2667.1	2790.8	2968.5	3218.4	3274.4	3507.0	3481.3
17.5°	2433.5	2444.5	2451.9	2499.6	2583.8	2704.7	2886.9	3161.8	3224.9	3512.4	3513.4
20°	2476.6	2484.9	2468.3	2480.3	2532.5	2640.6	2818.3	3113.2	3188.3	3518.9	3554.6
22.5°	2636.9	2640.6	2595.7	2543.4	2534.3	2593.9	2764.2	3074.7	3155.3	3536.2	3603.2
25°	2911.6	2905.2	2832.0	2719.4	2613.1	2585.6	2732.1	3050.8	3138.8	3554.6	3653.5
27.5°	3243.3	3252.4	3151.6	2987.7	2785.2	2640.6	2727.5	3040.8	3131.5	3567.5	3697.6
30°	3646.2	3659.0	3543.6	3337.6	3047.2	2776.1	2769.7	3038.9	3126.9	3559.2	3701.1
32.5°	4057.5	4073.0	3982.4	3769.9	3397.1	3003.2	2865.0	3059.2	3136.1	3530.8	3680.1
35°	4488.0	4509.9	4449.5	4267.2	3871.5	3331.1	3032.6	3120.5	3179.1	3528.1	3659.0
37.5°	5082.3	5102.5	4988.9	4795.7	4445.8	3770.7	3301.9	3235.9	3280.7	3572.0	3664.5
40°	5969.8	5967.0	5674.1	5378.2	5076.8	4329.5	3680.1	3444.7	3467.6	3704.9	3732.3
42.5°	6937.1	6932.5	6499.3	6049.5	5777.5	5017.3	4177.4	3805.6	3789.9	3949.4	3908.2
45°	7682.6	7681.7	7328.1	6821.6	6621.1	5806.8	4820.4	4307.5	4283.7	4346.9	4232.3
47.5°	8000.4	8006.0	7828.2	7471.9	7556.3	6874.8	5631.0	5034.7	4999.0	4973.4	4799.3
50°	7753.1	7764.1	7778.8	7709.2	8242.2	8310.0	6718.2	6059.6	6042.2	5927.8	5655.7
52.5°	6945.3	7001.3	7173.4	7394.1	8480.3	9687.5	8422.7	7332.7	7239.3	7117.4	6818.0
55°	5584.2	5645.7	5972.6	6508.5	8125.9	10592.4	10811.3	8974.0	8818.4	8454.7	8022.4
57.5°	3695.7	3791.0	4265.4	4946.8	7096.4	10738.1	13194.4	11251.8	10709.7	9714.1	9226.8
60°	2036.0	2127.6	2642.4	3259.7	5125.4	10018.2	14797.3	14217.6	13259.6	11121.8	10689.5
62.5°	1253.9	1303.4	1683.4	2257.8	3073.8	7907.0	15128.9	17944.4	16835.2	12934.4	12456.3
65°	998.3	1019.4	1205.3	1845.5	2203.6	4703.2	14058.2	20785.5	20415.5	15128.9	14038.0
67°	969.0	977.4	1065.2	1584.5	2077.2	2883.3	11777.6	21248.0	21623.6	16456.9	14087.6
67.5°	975.4	984.7	1067.9	1512.1	2073.6	2649.7	10991.8	21065.8	21540.3	16562.3	13868.6
70°	940.6	969.0	1222.7	1511.3	1971.9	2201.8	6582.7	18252.1	18745.8	15389.0	11767.6
72.5°	333.3	335.2	528.5	1222.7	2144.1	2225.6	3305.5	13380.4	13745.9	11772.1	8484.0
75°	197.9	168.5	175.9	348.0	2048.8	2161.5	1906.9	8550.0	8686.4	6745.6	4296.5
77.5°	136.5	119.1	122.7	153.8	780.3	2131.3	1514.9	4458.7	4313.0	2365.8	914.9
80°	77.9	68.8	73.3	134.6	284.0	1988.4	1428.8	1808.0	1541.4	401.2	252.8
82.5°	41.2	34.9	42.2	110.8	197.9	1239.2	1431.6	873.7	692.3	135.6	172.2
85°	14.6	11.9	20.1	76.1	131.8	380.1	1327.2	734.6	577.0	66.0	131.0
87.5°	2.7	2.7	8.2	31.1	53.1	116.4	784.9	436.0	292.2	39.4	89.8
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°	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1	3463.1
2.5°	3452.0	3412.7	3359.5	3294.5	3217.5	3149.8	3099.4	3047.2	3036.2	3018.0	3015.1
5°	3429.1	3361.4	3229.4	3078.4	2917.1	2771.6	2653.4	2548.0	2501.4	2461.1	2456.4
7.5°	3395.2	3293.6	3069.2	2825.6	2573.7	2344.7	2150.5	2013.2	1886.8	1826.3	1817.2
10°	3355.9	3210.2	2888.9	2550.7	2202.7	1879.5	1591.0	1349.2	1202.6	1115.5	1104.6
12.5°	3319.2	3128.7	2704.7	2265.9	1803.5	1371.1	1000.2	769.4	615.4	553.2	545.9
15°	3301.9	3062.7	2532.5	1974.7	1385.7	872.9	546.9	423.2	372.8	358.2	357.2
17.5°	3299.9	3007.0	2364.0	1673.3	970.9	507.4	356.3	325.1	315.1	311.4	311.4
20°	3299.1	2953.9	2195.4	1361.1	616.4	337.9	296.7	289.4	282.1	277.5	277.5
22.5°	3309.1	2906.2	2019.5	1042.4	388.3	273.8	261.0	253.7	244.5	238.1	237.2
25°	3319.2	2869.4	1840.0	741.9	281.3	238.1	225.3	215.2	202.4	194.2	193.3
27.5°	3321.1	2823.7	1647.7	496.5	235.4	207.9	191.4	175.9	161.1	153.0	152.1
30°	3293.6	2746.8	1434.3	335.2	207.9	180.4	158.4	141.9	128.3	121.9	121.9
32.5°	3239.5	2651.5	1199.8	252.8	184.9	154.8	131.0	115.4	106.2	103.5	102.6
35°	3191.0	2548.9	959.0	214.3	165.7	131.0	107.2	97.1	91.6	90.6	89.8
37.5°	3162.6	2466.5	732.7	194.2	147.5	110.0	90.6	83.4	80.7	78.7	79.6
40°	3184.6	2397.8	541.3	177.6	129.2	91.6	76.9	73.3	70.5	69.6	69.6
42.5°	3280.7	2385.9	402.1	163.1	111.8	76.1	66.8	64.1	62.3	61.4	62.3
45°	3533.6	2459.2	312.4	149.2	94.3	64.1	56.9	55.8	54.9	54.9	54.9
47.5°	3913.6	2610.3	260.1	133.8	78.7	54.9	49.5	48.5	47.6	48.5	48.5
50°	4557.5	2886.9	232.6	118.1	65.0	46.8	42.2	42.2	42.2	42.2	43.0
52.5°	5536.6	3431.0	214.3	102.6	53.1	39.4	35.7	35.7	36.6	36.6	37.5
55°	6627.4	4152.7	197.9	87.0	44.9	33.0	29.3	30.3	31.1	32.0	32.0
57.5°	7810.8	4952.2	184.1	71.4	38.5	26.6	24.7	25.6	26.6	28.4	28.4
60°	9238.8	5817.8	164.0	55.8	32.0	21.1	19.2	21.1	23.8	25.6	26.6
62.5°	10806.8	6655.0	138.3	43.9	26.6	16.5	15.7	19.2	23.0	24.7	25.6
65°	11878.3	6917.9	106.2	35.7	20.1	11.9	12.8	17.4	22.0	24.7	24.7
67°	11444.3	6272.1	87.0	30.3	16.5	9.2	11.9	17.4	22.0	23.8	24.7
67.5°	11143.0	6019.3	83.4	29.3	15.7	9.2	11.9	17.4	22.0	24.7	24.7
70°	9066.6	4521.8	69.6	22.0	12.8	8.2	10.1	16.5	21.1	23.8	23.8
72.5°	6299.6	2788.0	62.3	15.7	11.0	7.3	9.2	15.7	20.1	23.0	23.8
75°	2995.1	1009.3	53.1	11.9	10.1	6.4	8.2	15.7	20.1	23.0	23.0
77.5°	610.9	234.5	43.0	10.1	8.2	6.4	7.3	14.6	19.2	22.0	22.0
80°	200.6	90.6	32.0	9.2	8.2	6.4	7.3	13.7	19.2	21.1	22.0
82.5°	144.7	45.8	21.1	9.2	8.2	6.4	6.4	13.7	18.3	21.1	21.1
85°	110.8	32.0	13.7	9.2	8.2	6.4	6.4	12.8	17.4	20.1	20.1
87.5°	73.3	12.8	11.0	9.2	8.2	6.4	6.4	12.8	16.5	19.2	20.1
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)