

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: P193711

Luminaire Tested: **GAN-AF-03-LED-U-SL3-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL3-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14830 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

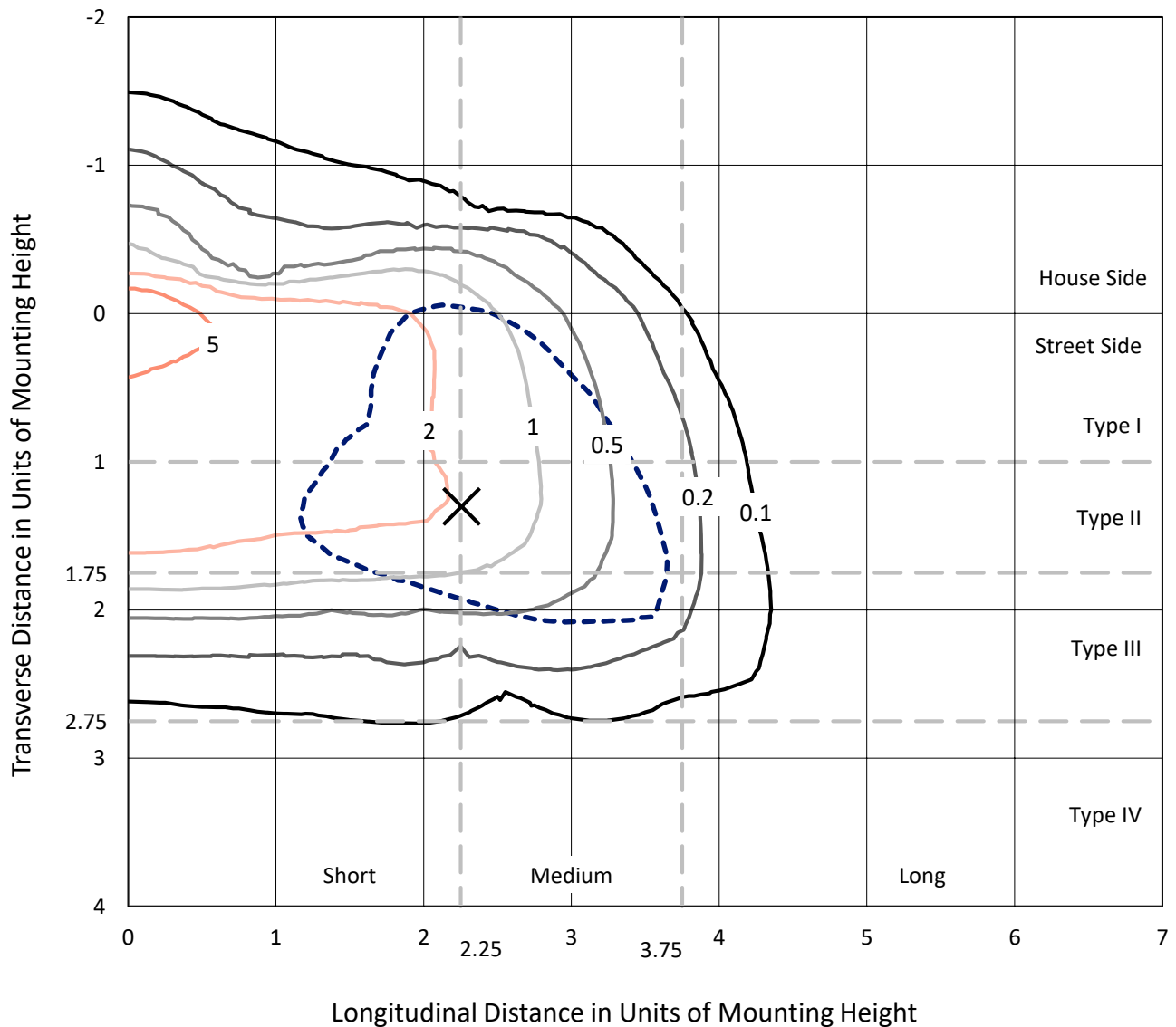
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

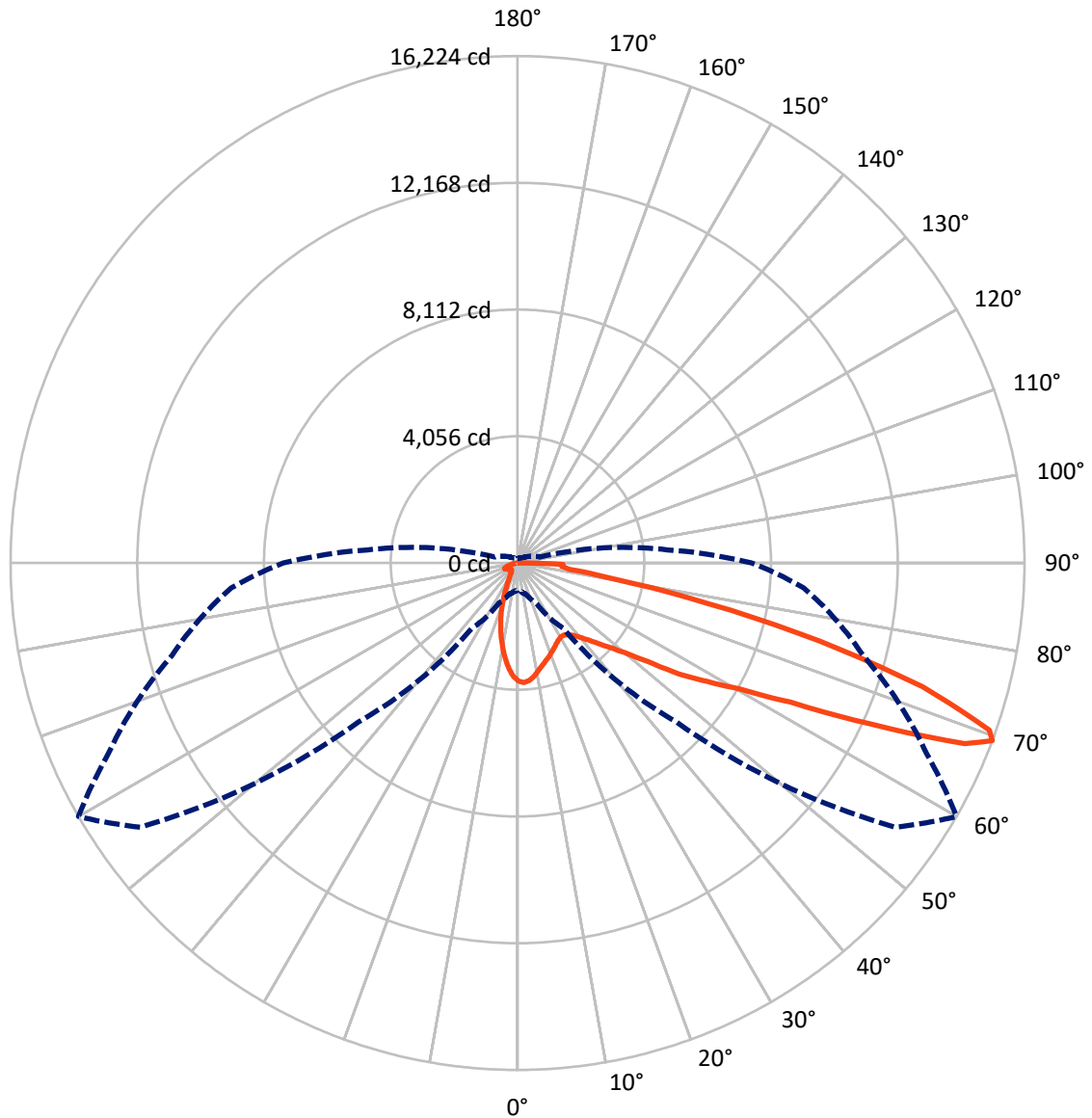
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.8	0.0	2109.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12720.2	0.0	12720.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	14830.0	0.0	14830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.5	2.2
10°-20°	680.8	4.6
20°-30°	867.4	5.8
30°-40°	1192.5	8.0
40°-50°	1934.9	13.0
50°-60°	3103.1	20.9
60°-70°	4130.0	27.8
70°-80°	2229.9	15.0
80°-90°	372.1	2.5
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°	14830.0	100.0
0°-180°	14830.0	100.0

Coefficient of Utilization



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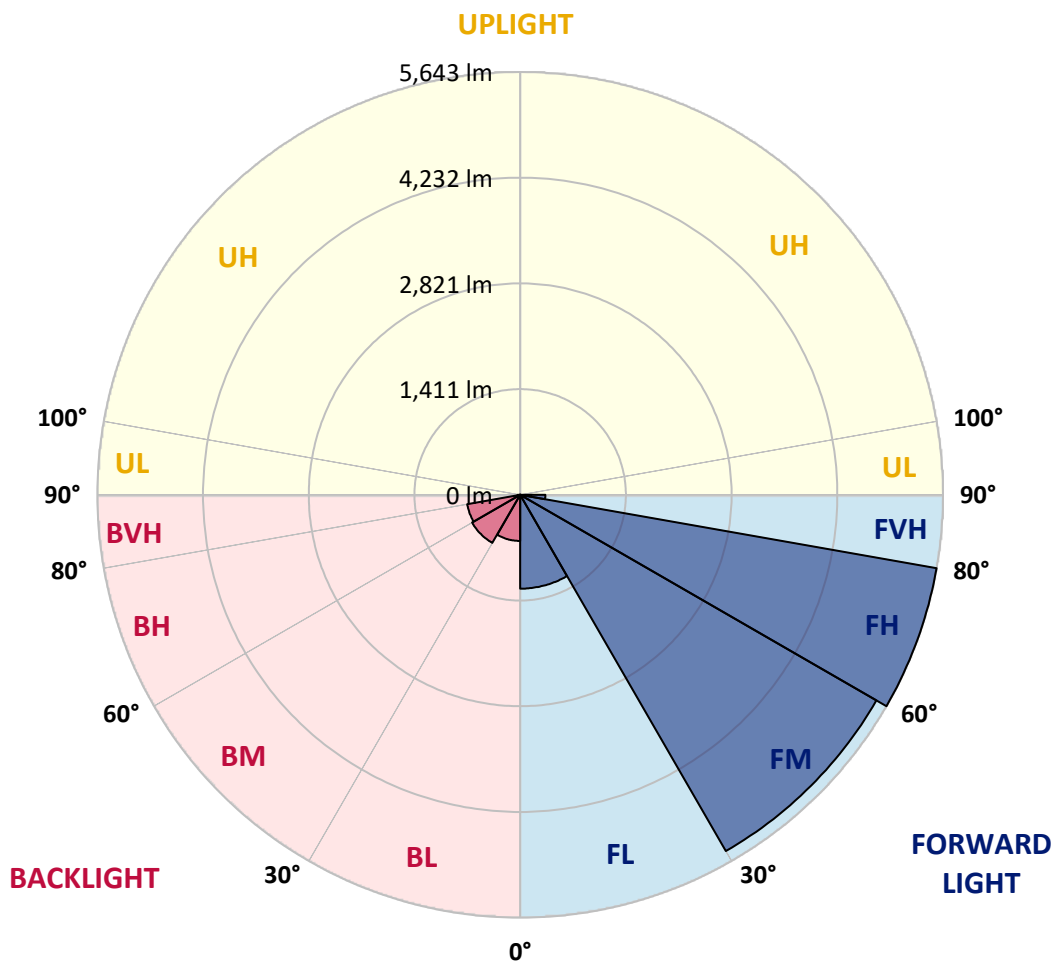
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1252.2	8.4			
FM	(30°-60°)	5489.2	37.0			
FH	(60°-80°)	5642.5	38.0			G3/7500
FVH	(80°-90°)	336.2	2.3			G3/500
BL	(0°-30°)	615.5	4.2	B2/1000		
BM	(30°-60°)	741.2	5.0	B1/1000		
BH	(60°-80°)	717.3	4.8	B2/1000		G2/1000
BVH	(80°-90°)	35.8	0.2			G1/100
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°	55°	60°	65°	75°	85°
0°	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9
2.5°	3856.3	3864.9	3861.3	3859.1	3865.6	3855.6	3834.8	3828.3	3818.3	3794.7	3754.6
5°	3711.6	3737.4	3735.9	3755.3	3787.5	3796.1	3786.8	3788.2	3769.6	3740.2	3673.6
7.5°	3461.6	3472.3	3478.0	3520.3	3579.0	3626.3	3666.4	3679.3	3670.7	3645.7	3559.7
10°	3203.7	3212.3	3225.9	3275.3	3349.8	3415.0	3490.9	3534.6	3553.2	3549.0	3453.0
12.5°	2982.3	2990.9	3008.8	3064.7	3153.5	3233.7	3344.1	3398.5	3442.9	3469.4	3366.3
15°	2783.9	2802.5	2819.7	2884.1	2983.7	3089.0	3213.7	3282.5	3351.2	3410.7	3289.6
17.5°	2629.1	2647.7	2657.8	2716.5	2822.5	2951.5	3097.6	3178.6	3264.5	3362.0	3213.7
20°	2539.6	2548.2	2543.9	2576.8	2672.1	2808.9	2982.3	3076.1	3180.0	3316.1	3137.7
22.5°	2514.5	2515.2	2499.5	2495.9	2557.5	2672.8	2859.1	2973.0	3100.5	3286.0	3072.6
25°	2575.4	2573.2	2530.3	2495.2	2501.6	2568.9	2740.2	2872.7	3033.9	3279.6	3022.4
27.5°	2710.8	2717.2	2653.5	2587.6	2522.4	2520.2	2649.9	2789.6	2979.4	3309.0	3000.9
30°	2900.6	2911.4	2843.3	2759.5	2637.0	2536.0	2614.8	2740.2	2945.8	3369.9	2997.3
32.5°	3108.4	3119.8	3068.3	2980.1	2819.7	2633.4	2639.1	2744.5	2944.3	3455.1	3021.7
35°	3329.7	3342.6	3316.1	3241.6	3063.2	2813.2	2732.3	2813.9	2990.9	3585.5	3086.9
37.5°	3576.9	3596.9	3604.1	3533.2	3342.6	3050.3	2884.9	2945.8	3096.2	3766.7	3206.5
40°	3932.9	3960.9	3958.7	3857.0	3662.9	3370.6	3120.6	3136.3	3260.2	4008.9	3397.8
42.5°	4614.9	4620.7	4442.3	4220.9	4015.3	3707.3	3398.5	3385.6	3486.6	4315.5	3679.3
45°	5482.5	5458.8	5061.9	4634.3	4383.5	4094.1	3760.3	3697.2	3773.9	4689.4	4031.8
47.5°	6202.4	6148.0	5646.5	5056.2	4773.2	4514.6	4185.1	4074.8	4117.0	5113.5	4487.4
50°	6452.4	6411.6	5996.1	5407.2	5142.2	5027.6	4708.1	4551.9	4563.3	5619.3	5021.1
52.5°	6398.7	6393.0	6115.7	5638.6	5487.5	5566.3	5448.8	5237.5	5125.7	6180.9	5597.1
55°	6271.9	6284.1	6183.8	5908.0	5882.2	6086.4	6416.6	6260.5	5913.0	6747.6	6192.4
57.5°	5831.3	5862.9	6083.5	6246.8	6517.6	6821.4	7196.0	7151.6	6760.5	7360.1	6900.2
60°	4698.0	4771.1	5362.8	6180.9	7171.7	8121.6	8289.2	8186.1	7634.5	8120.2	7835.1
62.5°	3291.8	3367.7	4071.2	5351.4	7064.2	9590.2	10243.5	9798.7	8889.6	9239.9	9045.0
65°	1762.3	1798.8	2336.1	3713.0	5963.9	9893.2	13099.7	12422.8	10876.8	10620.3	10080.2
67.5°	972.1	992.2	1197.8	1874.8	3819.7	8711.9	14919.3	15430.8	13360.5	11539.5	9891.8
69°	879.0	897.6	1032.3	1419.9	2556.0	7203.2	14741.7	16223.9	14449.4	11448.5	9195.5
70°	859.7	876.9	997.9	1308.8	2068.9	5937.4	14146.4	16021.1	14708.7	11122.5	8588.0
72.5°	773.7	792.3	909.8	1175.6	1768.0	2960.1	11205.6	13546.0	13354.1	9643.9	6514.1
75°	721.4	738.6	937.7	1151.2	1692.8	1873.3	7387.3	9983.5	9816.6	6746.2	3512.4
77.5°	308.8	307.3	434.8	974.3	1717.9	1813.9	3969.5	6236.8	5690.2	2883.4	1008.7
80°	206.3	202.7	206.3	286.6	1575.3	1823.9	2079.7	3165.7	2391.3	735.0	497.2
82.5°	177.7	174.8	181.2	174.8	553.8	2081.8	1768.0	1683.5	1136.9	417.7	246.4
85°	119.6	114.6	156.2	156.9	261.5	1849.7	1991.5	1422.0	919.8	247.9	121.8
87.5°	57.3	55.9	91.0	111.0	153.3	751.5	2234.4	1457.1	927.7	126.8	58.0
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°	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9
2.5°	3742.4	3713.0	3684.3	3650.0	3614.1	3574.0	3554.0	3533.9	3528.9	3523.2	3503.1
5°	3639.2	3597.7	3526.0	3447.2	3364.1	3283.2	3221.6	3182.9	3153.5	3138.5	3112.0
7.5°	3506.0	3445.1	3319.7	3183.6	3043.9	2916.4	2806.1	2736.6	2670.7	2639.9	2604.8
10°	3379.2	3288.2	3093.3	2892.7	2692.2	2499.5	2318.2	2190.0	2076.1	2012.3	1967.2
12.5°	3270.3	3145.6	2875.6	2604.0	2329.0	2054.6	1783.1	1569.6	1391.2	1297.4	1249.4
15°	3164.3	3013.8	2668.5	2323.9	1970.8	1597.5	1240.8	998.6	851.1	792.3	772.3
17.5°	3068.3	2875.6	2460.8	2041.7	1601.1	1149.8	833.9	700.6	644.0	624.7	618.2
20°	2964.4	2735.9	2245.1	1746.5	1215.7	803.8	651.2	592.4	569.5	563.8	560.9
22.5°	2864.1	2598.3	2038.8	1430.6	873.3	620.4	559.5	535.1	531.6	536.6	536.6
25°	2778.8	2475.1	1816.0	1100.4	641.2	522.2	500.8	495.0	508.6	527.3	530.8
27.5°	2715.1	2374.1	1578.9	812.4	510.8	454.2	453.5	462.8	496.5	532.3	539.4
30°	2671.4	2278.1	1325.3	586.0	428.4	399.7	411.2	431.3	480.7	531.6	545.2
32.5°	2649.2	2207.2	1061.0	453.5	366.8	351.0	370.4	394.7	443.4	490.7	508.6
35°	2666.4	2154.9	811.7	378.2	323.8	311.6	331.7	355.3	384.0	404.0	417.7
37.5°	2730.8	2134.1	612.5	338.8	294.4	283.0	298.7	312.3	323.8	329.5	336.0
40°	2869.8	2156.3	490.7	318.8	278.0	263.6	270.1	275.1	282.3	288.0	290.9
42.5°	3074.7	2222.9	439.9	310.9	269.4	248.6	247.2	249.3	258.6	269.4	271.5
45°	3361.3	2340.4	436.3	315.9	265.1	236.4	230.0	232.8	247.2	263.6	266.5
47.5°	3727.3	2519.5	464.9	331.0	268.6	230.0	219.2	222.8	240.7	262.9	266.5
50°	4170.8	2769.5	512.9	353.2	284.4	231.4	215.6	217.8	236.4	260.8	264.3
52.5°	4694.4	3124.1	565.2	374.7	300.9	240.7	218.5	213.5	230.7	252.2	256.5
55°	5276.9	3579.0	619.0	394.0	309.5	252.2	224.2	207.8	219.9	237.8	241.4
57.5°	5991.8	4215.2	712.1	412.6	315.2	260.0	230.0	202.0	206.3	219.2	222.1
60°	6959.6	5115.0	876.1	443.4	328.1	262.9	229.2	197.0	192.7	199.9	201.3
62.5°	8119.5	6092.1	1013.0	482.1	349.6	265.1	224.9	193.4	181.2	181.2	182.7
65°	8807.9	6353.6	937.0	514.4	367.5	262.9	219.9	189.8	172.6	164.8	165.5
67.5°	8224.1	5587.8	803.1	520.8	366.8	252.9	212.0	183.4	164.1	151.9	151.2
69°	7492.6	4821.2	742.9	503.6	349.6	240.0	202.0	176.2	157.6	144.7	144.0
70°	6903.0	4353.4	703.5	485.0	331.0	230.7	194.1	169.8	152.6	140.4	139.0
72.5°	5019.0	2852.6	601.0	416.9	272.9	193.4	167.6	149.0	136.1	128.9	127.5
75°	2508.0	1360.4	487.9	338.1	209.2	154.7	137.5	124.7	118.2	116.8	116.1
77.5°	823.8	623.3	348.9	252.2	155.5	121.1	111.0	101.7	100.3	104.6	103.2
80°	452.8	362.5	221.4	166.9	106.0	88.8	87.4	82.4	84.5	91.7	90.3
82.5°	230.7	188.4	136.8	100.3	71.6	63.8	69.5	66.6	69.5	75.9	75.2
85°	113.9	103.2	86.7	60.9	47.3	40.8	49.4	51.6	53.0	58.0	58.0
87.5°	65.9	60.9	45.8	28.7	23.6	21.5	28.7	27.9	33.0	35.8	35.1
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)