

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: P321403

Luminaire Tested: **GAN-SA9B-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30313 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

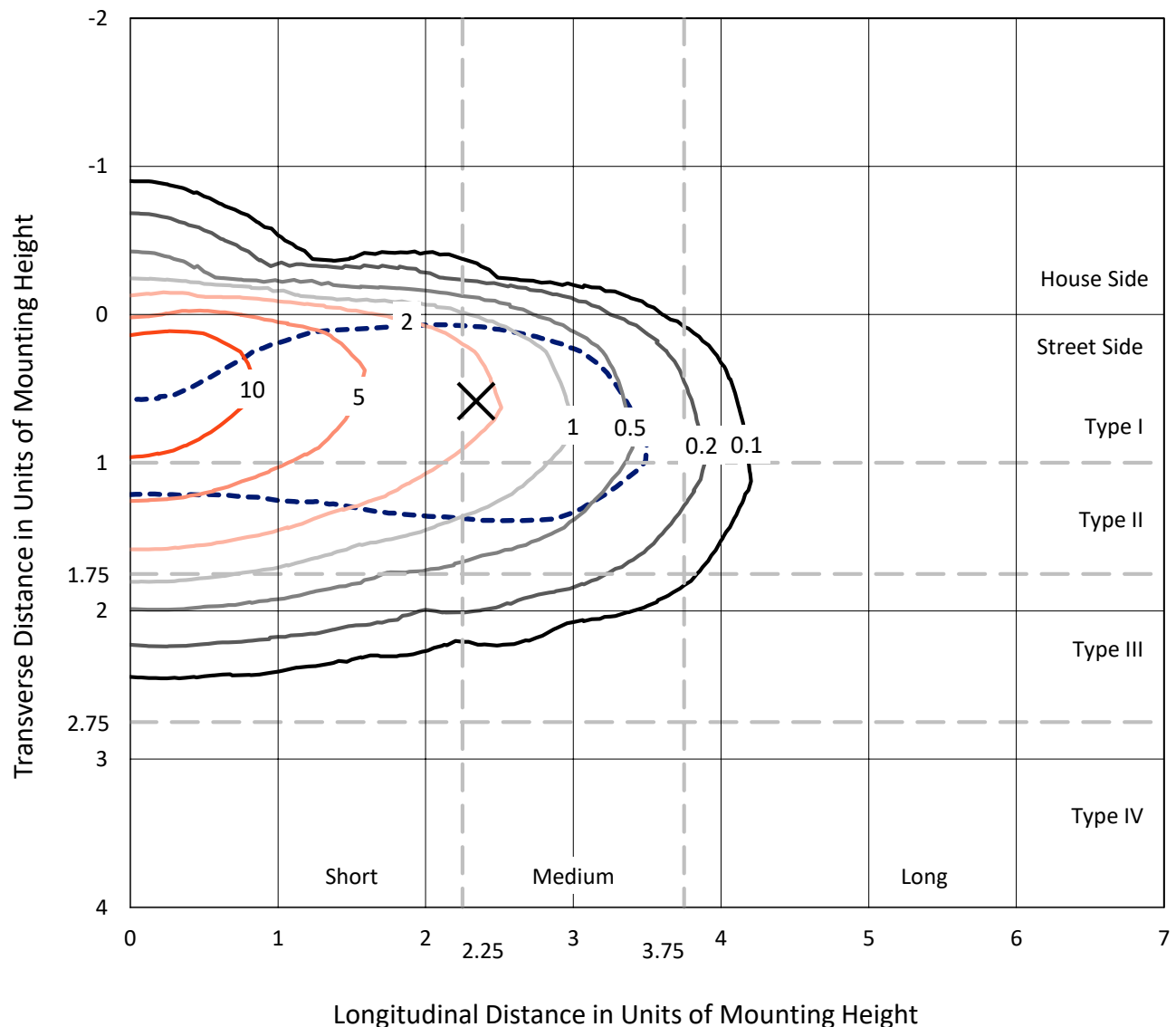
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

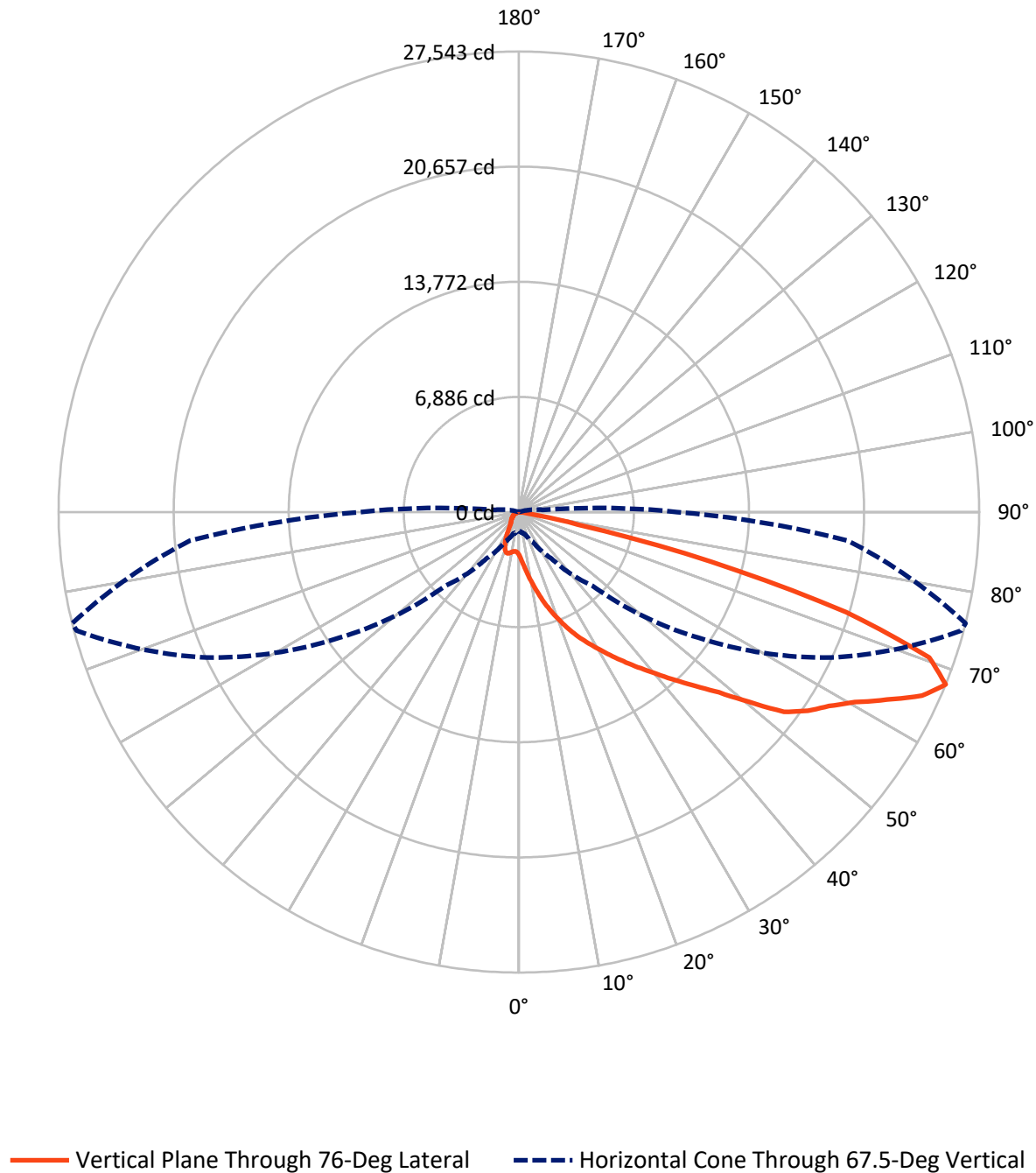
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1505.3	0.0	1505.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28807.8	0.0	28807.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	30313.0	0.0	30313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.8	1.1
10°-20°	1267.5	4.2
20°-30°	2579.0	8.5
30°-40°	4476.4	14.8
40°-50°	6324.5	20.9
50°-60°	7172.3	23.7
60°-70°	5948.8	19.6
70°-80°	2154.8	7.1
80°-90°	69.9	0.2
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°	30313.0	100.0
0°-180°	30313.0	100.0

Coefficient of Utilization



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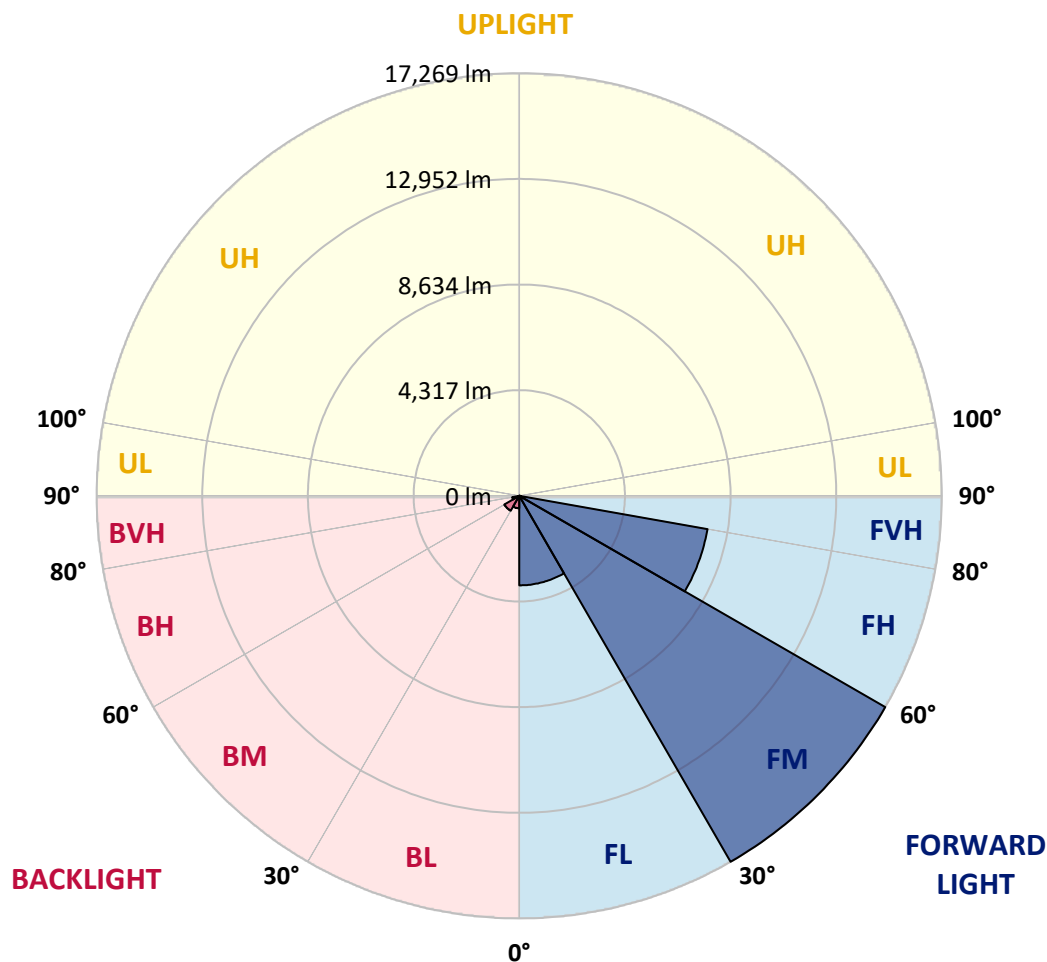
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3658.7	12.1			
FM	(30°-60°)	17268.7	57.0			
FH	(60°-80°)	7812.7	25.8			G4/12000
FVH	(80°-90°)	67.7	0.2			G1/100
BL	(0°-30°)	507.7	1.7	B2/1000		
BM	(30°-60°)	704.5	2.3	B1/1000		
BH	(60°-80°)	290.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4
2.5°	3838.5	3752.2	3772.1	3716.3	3615.4	3408.2	3231.5	3064.2	2868.9	2862.3	2701.6
5°	5176.0	5103.0	5093.7	4980.8	4797.5	4445.5	4102.8	3712.4	3276.7	3244.8	2903.5
7.5°	6390.0	6331.6	6310.3	6176.2	5834.8	5492.2	5045.9	4472.1	3790.7	3732.3	3175.8
10°	7322.4	7294.5	7299.9	7204.2	6912.0	6593.2	6007.5	5275.7	4373.8	4283.5	3502.5
12.5°	8029.0	8035.7	8083.5	8025.1	7861.7	7625.3	6999.7	6132.4	5019.3	4895.8	3875.7
15°	8548.4	8581.6	8669.2	8742.3	8730.3	8525.8	7952.0	7002.3	5704.7	5567.9	4291.5
17.5°	8884.4	8921.6	9049.1	9211.2	9359.9	9312.1	8871.1	7841.8	6398.0	6239.9	4736.4
20°	9179.3	9223.1	9359.9	9573.8	9851.4	9911.1	9621.6	8656.0	7090.0	6897.4	5196.0
22.5°	9818.2	9816.8	9900.5	10025.4	10289.7	10443.7	10260.4	9411.7	7774.0	7573.5	5664.8
25°	10973.7	10929.9	10900.6	10802.4	10860.8	10956.4	10854.2	10118.3	8462.0	8258.8	6140.3
27.5°	12347.1	12373.6	12137.2	11872.9	11668.4	11570.1	11402.7	10773.1	9123.5	8900.4	6605.2
30°	13796.1	13804.1	13525.2	13187.8	12737.6	12364.3	12074.8	11398.7	9803.5	9560.5	7056.8
32.5°	15103.1	15051.3	14775.0	14315.5	13747.0	13327.3	12725.6	12097.4	10523.4	10288.3	7558.9
35°	16139.1	16078.0	15742.0	15323.6	14733.9	14311.5	13587.6	12794.7	11280.5	11050.7	8062.3
37.5°	16896.2	16824.5	16479.1	16048.8	15540.1	15294.4	14587.8	13553.1	12106.7	11859.6	8592.2
40°	17159.2	17096.8	16880.3	16565.5	16156.4	16100.6	15649.0	14425.7	13005.9	12742.9	9192.6
42.5°	17002.5	16941.4	16864.3	16758.1	16588.1	16641.2	16650.5	15420.6	14004.7	13745.7	9855.3
45°	16380.9	16326.4	16406.1	16561.5	16772.7	17035.7	17564.3	16489.8	15120.4	14844.1	10621.7
47.5°	15465.7	15425.9	15646.3	16034.2	16651.8	17377.0	18399.7	17613.4	16372.9	16116.5	11578.0
50°	14164.1	14157.4	14598.4	15306.3	16256.0	17541.7	19263.1	18891.2	18112.8	17843.2	12907.6
52.5°	12137.2	12150.5	13017.8	14150.8	15561.3	17430.1	19818.3	20532.8	20137.0	19856.8	14059.1
55°	10207.3	10287.0	10902.0	12535.7	14496.1	17015.7	20009.5	21299.2	21254.1	20988.4	14699.3
57.5°	8317.3	8462.0	9054.4	10580.5	12940.8	16060.8	19904.6	21631.3	22085.5	21882.3	15544.1
60°	6269.2	6335.6	7018.3	8444.8	10944.5	14318.1	19143.5	21811.9	23222.5	23081.7	16770.0
62.5°	3988.6	4154.7	4760.3	6136.3	8521.8	11898.1	17860.5	21809.3	24645.0	24722.0	18351.9
65°	2101.2	2295.2	2616.6	3802.7	5856.1	9195.2	15930.6	21604.7	26390.3	26497.8	19588.5
67.5°	1133.0	1188.8	1358.8	1973.7	3396.2	6229.3	13094.9	20595.3	27401.0	27543.2	19761.2
70°	828.8	859.4	923.1	1091.8	1709.4	3618.1	9555.2	18306.8	26098.1	26044.9	17557.6
72.5°	636.2	684.0	731.8	799.6	982.9	1931.2	5949.1	14335.4	20823.7	20473.1	13124.1
75°	502.1	510.0	577.8	638.9	737.2	1099.8	2641.8	8349.1	12709.7	11879.5	6805.8
77.5°	401.1	406.4	446.3	499.4	592.4	722.5	818.2	3284.7	4057.7	3620.7	1477.0
80°	237.8	251.0	332.1	385.2	491.4	455.6	298.8	713.3	633.6	573.8	248.4
82.5°	132.8	143.4	187.3	304.2	342.7	217.8	148.8	192.6	148.8	144.8	70.4
85°	0.0	6.6	120.9	188.6	139.5	47.8	62.4	63.8	43.8	41.2	27.9
87.5°	0.0	0.0	37.2	35.9	5.3	8.0	14.6	21.3	17.3	17.3	14.6
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°	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4
2.5°	2621.9	2550.2	2414.7	2281.9	2170.3	2078.7	1996.3	1963.1	1936.5	1932.5	1911.3
5°	2738.8	2594.0	2335.0	2122.5	1980.4	1879.4	1793.1	1740.0	1698.8	1682.8	1668.2
7.5°	2915.4	2696.3	2324.4	2080.0	1910.0	1740.0	1580.6	1407.9	1300.3	1259.1	1235.2
10°	3130.6	2831.8	2364.2	2068.0	1770.5	1411.9	1147.6	928.4	839.4	810.2	802.2
12.5°	3381.6	3000.4	2433.3	1993.6	1473.0	1002.8	791.6	717.2	697.3	688.0	688.0
15°	3669.9	3185.1	2482.4	1778.5	1089.1	758.4	685.4	650.8	629.6	617.6	618.9
17.5°	3964.7	3365.7	2458.5	1466.3	803.6	674.7	620.3	583.1	553.9	541.9	539.3
20°	4262.2	3533.0	2325.7	1091.8	680.0	612.3	551.2	510.0	480.8	468.9	466.2
22.5°	4570.4	3675.2	2091.9	800.9	611.0	543.2	483.5	442.3	414.4	403.8	398.5
25°	4870.6	3790.7	1765.2	648.2	545.9	478.2	421.0	382.5	357.3	346.7	345.3
27.5°	5150.8	3863.8	1386.7	572.5	488.8	419.7	367.9	333.4	312.1	304.2	302.8
30°	5403.2	3870.4	1025.4	516.7	438.3	369.2	321.4	290.9	272.3	264.3	261.7
32.5°	5658.2	3814.6	746.5	466.2	391.8	325.4	278.9	255.0	241.7	235.1	235.1
35°	5898.6	3685.8	581.8	422.4	346.7	282.9	245.7	228.5	220.5	213.8	213.8
37.5°	6133.7	3501.2	494.1	383.9	304.2	247.0	216.5	205.9	199.2	192.6	192.6
40°	6372.8	3268.7	448.9	348.0	269.6	219.2	192.6	183.3	176.7	171.3	170.0
42.5°	6666.3	3000.4	419.7	314.8	239.1	193.9	170.0	159.4	154.1	148.8	146.1
45°	7006.3	2769.3	395.8	281.6	213.8	172.7	147.4	136.8	128.8	122.2	120.9
47.5°	7496.4	2602.0	363.9	245.7	189.9	150.1	127.5	115.6	103.6	97.0	95.6
50°	8122.0	2463.8	322.8	213.8	166.0	127.5	106.3	91.6	81.0	74.4	74.4
52.5°	8432.8	2283.2	285.6	185.9	139.5	107.6	86.3	69.1	63.8	57.1	57.1
55°	8557.7	2145.1	248.4	158.1	115.6	89.0	67.7	53.1	49.1	45.2	43.8
57.5°	8908.3	2105.2	216.5	134.1	95.6	70.4	51.8	39.8	37.2	31.9	31.9
60°	9472.8	2125.1	187.3	114.2	77.0	54.5	38.5	30.5	27.9	22.6	22.6
62.5°	10082.5	2099.9	158.1	98.3	59.8	39.8	26.6	22.6	22.6	13.3	12.0
65°	10199.3	1870.1	135.5	81.0	46.5	29.2	17.3	14.6	19.9	2.7	0.0
67.5°	9466.2	1450.4	116.9	62.4	34.5	22.6	13.3	6.6	17.3	0.0	0.0
70°	7569.5	921.8	94.3	45.2	26.6	18.6	10.6	2.7	13.3	0.0	0.0
72.5°	5352.7	535.3	74.4	31.9	22.6	14.6	8.0	0.0	8.0	0.0	0.0
75°	2706.9	285.6	46.5	23.9	17.3	10.6	5.3	0.0	1.3	0.0	0.0
77.5°	585.7	132.8	29.2	17.3	12.0	6.6	2.7	0.0	0.0	0.0	0.0
80°	127.5	58.4	18.6	10.6	6.6	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.5	30.5	9.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.2	15.9	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	5.3	1.3	1.3	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)