

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: P321443

Luminaire Tested: **GAN-SA9B-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321443
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-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 32768 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

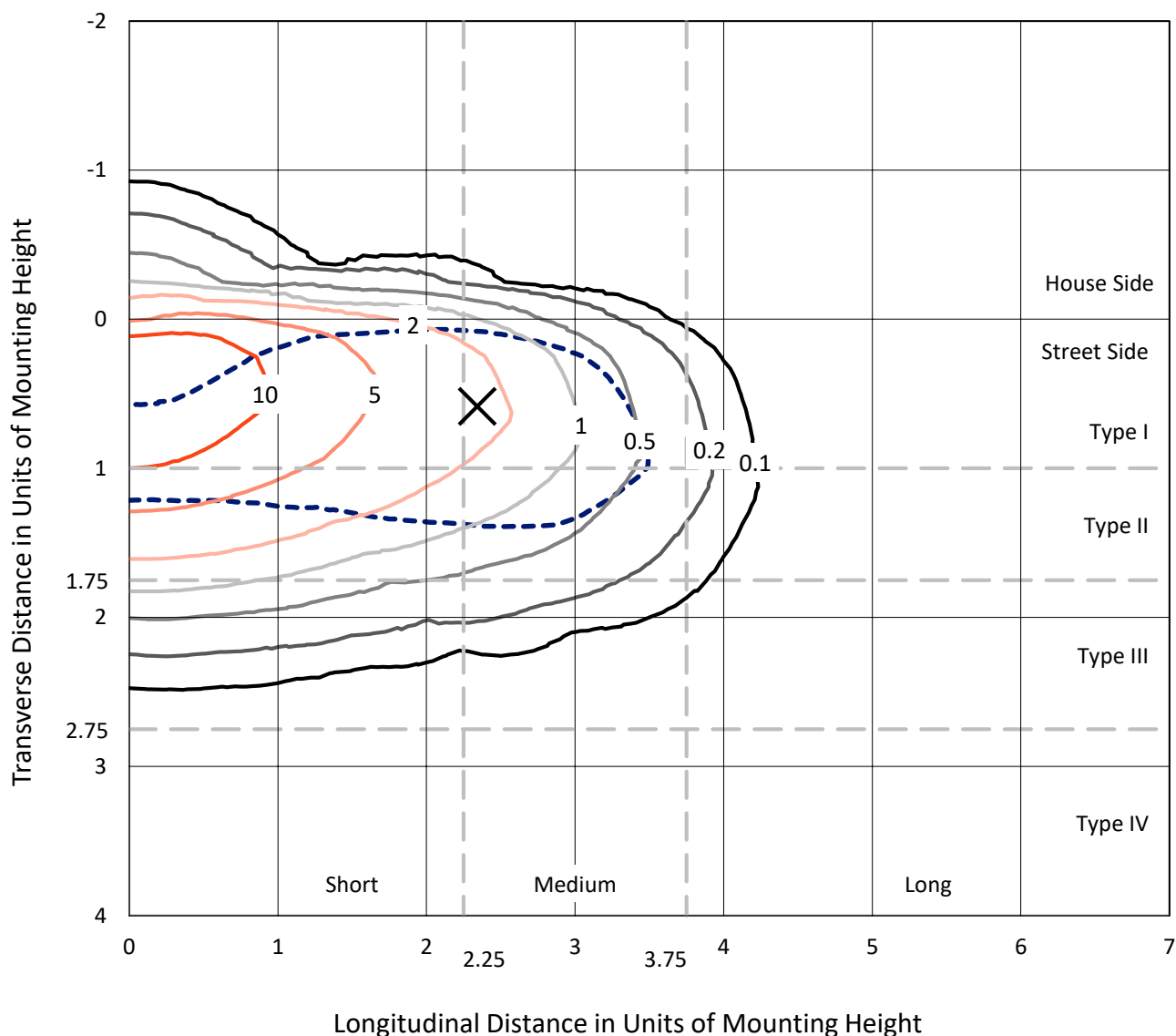
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

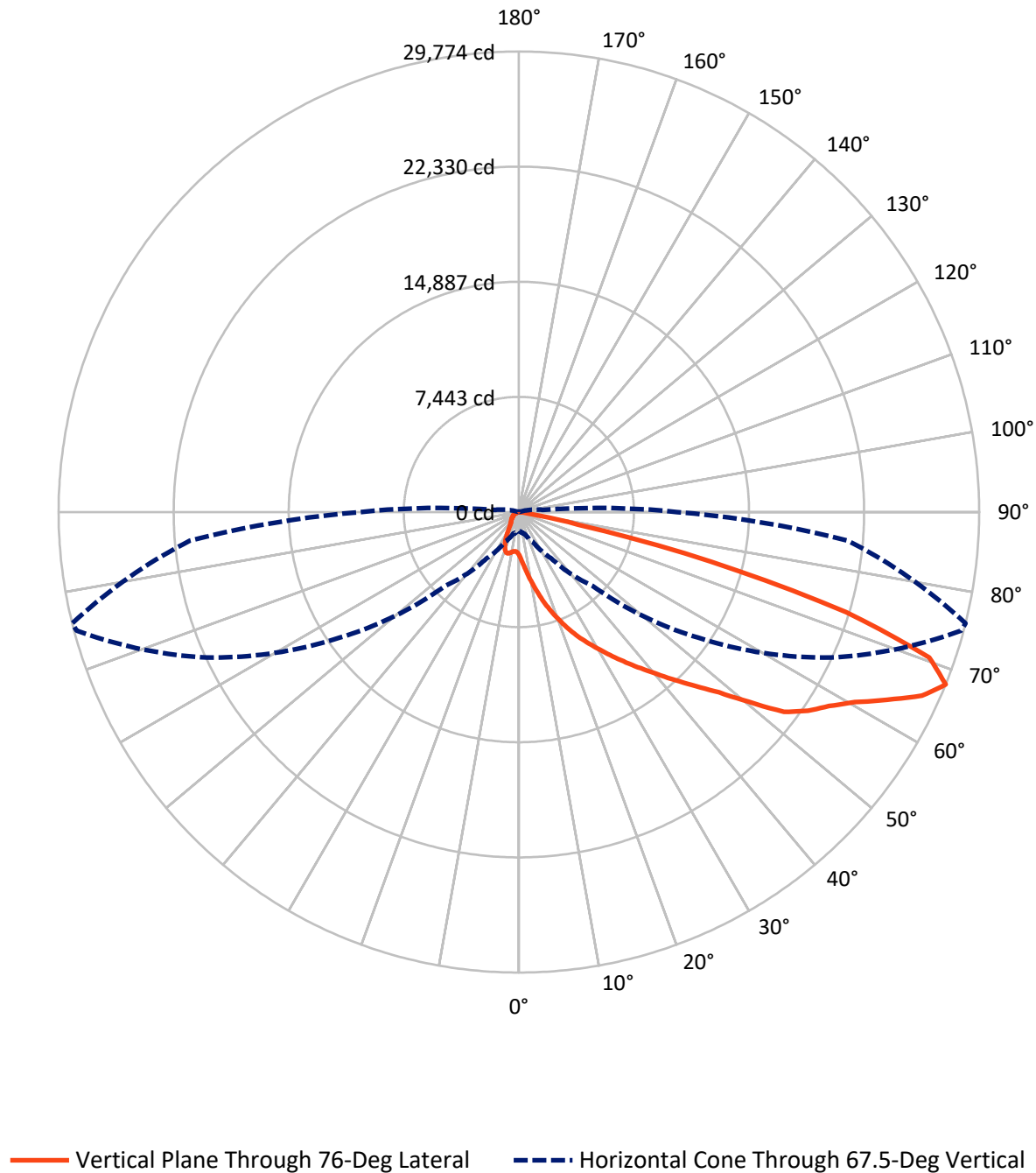
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	1627.2	0.0	1627.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31140.8	0.0	31140.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	32768.0	0.0	32768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	1.1
10°-20°	1370.2	4.2
20°-30°	2787.9	8.5
30°-40°	4838.9	14.8
40°-50°	6836.7	20.9
50°-60°	7753.2	23.7
60°-70°	6430.5	19.6
70°-80°	2329.3	7.1
80°-90°	75.5	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°	32768.0	100.0
0°-180°	32768.0	100.0

Coefficient of Utilization



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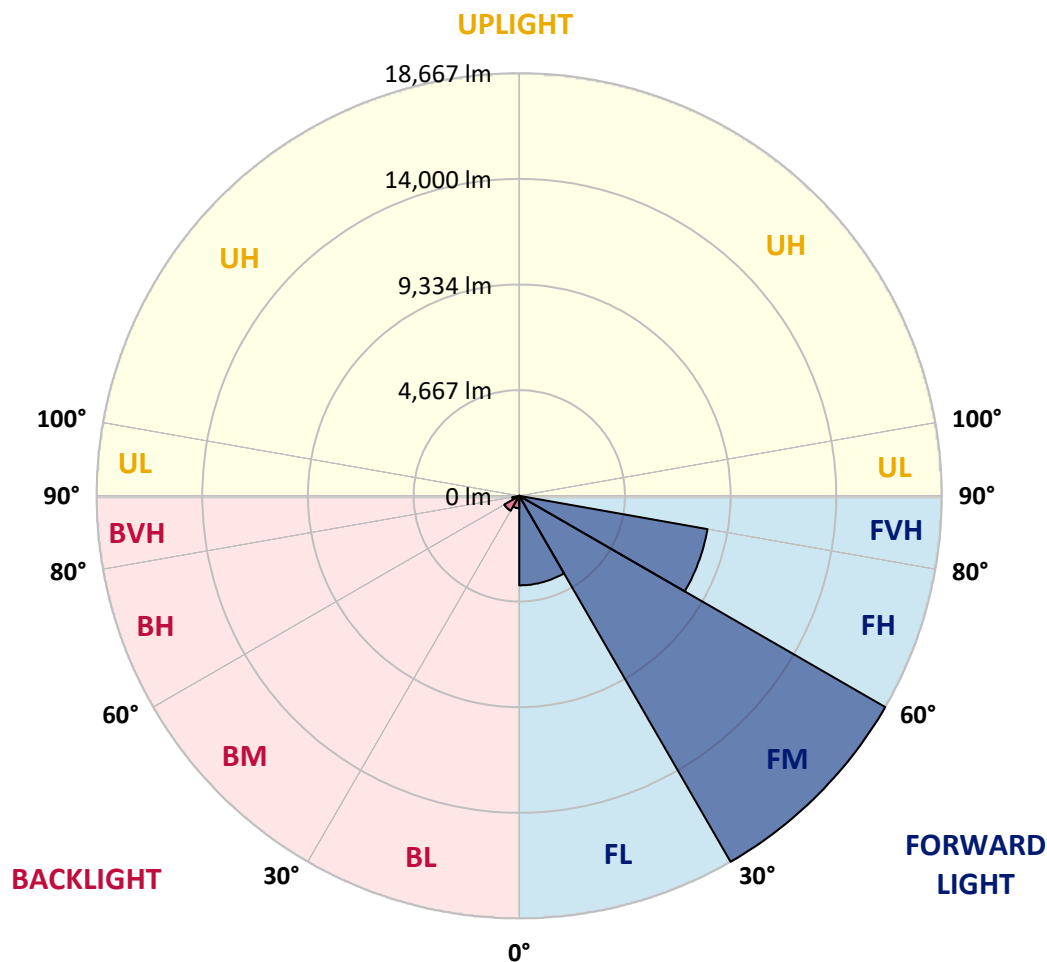
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3955.0	12.1			
FM	(30°-60°)	18667.3	57.0			
FH	(60°-80°)	8445.4	25.8			G4/12000
FVH	(80°-90°)	73.2	0.2			G1/100
BL	(0°-30°)	548.8	1.7	B2/1000		
BM	(30°-60°)	761.6	2.3	B1/1000		
BH	(60°-80°)	314.5	1.0	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7
2.5°	4149.4	4056.1	4077.6	4017.3	3908.2	3684.2	3493.3	3312.4	3101.3	3094.1	2920.4
5°	5595.2	5516.3	5506.2	5384.2	5186.0	4805.6	4435.1	4013.0	3542.1	3507.6	3138.6
7.5°	6907.6	6844.4	6821.4	6676.4	6307.4	5937.0	5454.5	4834.3	4097.7	4034.5	3433.0
10°	7915.5	7885.3	7891.1	7787.7	7471.8	7127.2	6494.0	5702.9	4728.0	4630.4	3786.2
12.5°	8679.3	8686.5	8738.2	8675.0	8498.4	8242.8	7566.6	6629.0	5425.8	5292.3	4189.6
15°	9240.7	9276.6	9371.4	9450.3	9437.4	9216.3	8596.0	7569.4	6166.7	6018.8	4639.0
17.5°	9604.0	9644.2	9782.0	9957.2	10118.0	10066.3	9589.6	8476.9	6916.2	6745.3	5120.0
20°	9922.7	9970.1	10118.0	10349.1	10649.2	10713.8	10400.8	9357.0	7664.2	7456.0	5616.8
22.5°	10613.3	10611.9	10702.3	10837.3	11123.0	11289.6	11091.4	10174.0	8403.6	8186.8	6123.6
25°	11862.4	11815.1	11783.5	11677.2	11740.4	11843.8	11733.2	10937.8	9147.4	8927.7	6637.6
27.5°	13347.0	13375.8	13120.2	12834.5	12613.4	12507.1	12326.2	11645.6	9862.4	9621.2	7140.1
30°	14913.5	14922.1	14620.6	14255.9	13769.2	13365.7	13052.7	12321.9	10597.5	10334.8	7628.3
32.5°	16326.3	16270.3	15971.6	15474.9	14860.4	14406.6	13756.2	13077.1	11375.7	11121.6	8171.0
35°	17446.2	17380.2	17016.9	16564.6	15927.1	15470.6	14688.1	13830.9	12194.1	11945.7	8715.2
37.5°	18264.6	18187.1	17813.8	17348.6	16798.7	16533.0	15769.2	14650.7	13087.2	12820.1	9288.1
40°	18548.9	18481.4	18247.4	17907.1	17464.9	17404.6	16916.4	15594.0	14059.2	13774.9	9937.1
42.5°	18379.5	18313.4	18230.1	18115.3	17931.5	17988.9	17999.0	16669.4	15138.9	14858.9	10653.5
45°	17707.5	17648.6	17734.8	17902.8	18131.1	18415.3	18986.8	17825.2	16345.0	16046.3	11482.0
47.5°	16718.3	16675.2	16913.5	17332.8	18000.4	18784.3	19889.9	19039.9	17698.9	17421.8	12515.7
50°	15311.2	15304.0	15780.7	16546.0	17572.5	18962.4	20823.2	20421.1	19579.8	19288.3	13952.9
52.5°	13120.2	13134.5	14072.1	15296.8	16821.6	18841.8	21423.3	22195.8	21767.9	21465.0	15197.8
55°	11034.0	11120.1	11784.9	13550.9	15670.1	18393.8	21630.1	23024.2	22975.4	22688.2	15889.8
57.5°	8990.9	9147.4	9787.7	11437.4	13988.8	17361.5	21516.6	23383.2	23874.2	23654.5	16803.0
60°	6776.9	6848.7	7586.7	9128.7	11830.9	15477.7	20693.9	23578.4	25103.2	24951.0	18128.2
62.5°	4311.7	4491.1	5145.8	6633.3	9212.0	12861.7	19307.0	23575.6	26640.9	26724.2	19838.2
65°	2271.4	2481.0	2828.5	4110.6	6330.4	9939.9	17220.8	23354.4	28527.6	28643.9	21174.9
67.5°	1224.7	1285.0	1468.8	2133.6	3671.3	6733.8	14155.4	22263.2	29620.2	29773.8	21361.6
70°	895.9	929.0	997.9	1180.2	1847.9	3911.1	10329.0	19789.4	28211.7	28154.3	18979.6
72.5°	687.7	739.4	791.1	864.3	1062.5	2087.6	6430.9	15496.4	22510.2	22131.2	14187.0
75°	542.7	551.3	624.6	690.6	796.9	1188.8	2855.8	9025.3	13739.0	12841.6	7357.0
77.5°	433.6	439.3	482.4	539.9	640.4	781.1	884.4	3550.7	4386.3	3913.9	1596.6
80°	257.0	271.4	358.9	416.4	531.2	492.5	323.1	771.0	684.9	620.3	268.5
82.5°	143.6	155.1	202.4	328.8	370.4	235.5	160.8	208.2	160.8	156.5	76.1
85°	0.0	7.2	130.7	203.9	150.8	51.7	67.5	68.9	47.4	44.5	30.2
87.5°	0.0	0.0	40.2	38.8	5.7	8.6	15.8	23.0	18.7	18.7	15.8
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°	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7	2779.7
2.5°	2834.2	2756.7	2610.3	2466.7	2346.1	2247.0	2158.0	2122.1	2093.4	2089.1	2066.1
5°	2960.6	2804.1	2524.1	2294.4	2140.8	2031.6	1938.3	1880.9	1836.4	1819.1	1803.3
7.5°	3151.5	2914.6	2512.6	2248.4	2064.7	1880.9	1708.6	1521.9	1405.6	1361.1	1335.3
10°	3384.1	3061.1	2555.7	2235.5	1913.9	1526.2	1240.5	1003.6	907.4	875.8	867.2
12.5°	3655.5	3243.4	2630.4	2155.1	1592.3	1084.0	855.7	775.3	753.8	743.7	743.7
15°	3967.1	3443.0	2683.5	1922.5	1177.3	819.8	740.9	703.5	680.6	667.6	669.1
17.5°	4285.8	3638.3	2657.6	1585.1	868.6	729.4	670.5	630.3	598.7	585.8	582.9
20°	4607.4	3819.2	2514.1	1180.2	735.1	661.9	595.8	551.3	519.8	506.8	504.0
22.5°	4940.5	3972.8	2261.4	865.8	660.5	587.2	522.6	478.1	448.0	436.5	430.7
25°	5265.0	4097.7	1908.2	700.7	590.1	516.9	455.1	413.5	386.2	374.7	373.3
27.5°	5568.0	4176.7	1499.0	618.8	528.4	453.7	397.7	360.4	337.4	328.8	327.4
30°	5840.8	4183.9	1108.4	558.5	473.8	399.1	347.5	314.4	294.3	285.7	282.8
32.5°	6116.4	4123.6	806.9	504.0	423.6	351.8	301.5	275.7	261.3	254.1	254.1
35°	6376.3	3984.3	628.9	456.6	374.7	305.8	265.6	247.0	238.3	231.2	231.2
37.5°	6630.4	3784.7	534.1	414.9	328.8	267.1	234.0	222.5	215.4	208.2	208.2
40°	6888.9	3533.5	485.3	376.2	291.5	236.9	208.2	198.1	191.0	185.2	183.8
42.5°	7206.2	3243.4	453.7	340.3	258.4	209.6	183.8	172.3	166.6	160.8	157.9
45°	7573.8	2993.6	427.9	304.4	231.2	186.7	159.4	147.9	139.3	132.1	130.7
47.5°	8103.6	2812.7	393.4	265.6	205.3	162.2	137.8	124.9	112.0	104.8	103.4
50°	8779.8	2663.4	348.9	231.2	179.5	137.8	114.9	99.1	87.6	80.4	80.4
52.5°	9115.8	2468.1	308.7	201.0	150.8	116.3	93.3	74.7	68.9	61.7	61.7
55°	9250.7	2318.8	268.5	170.9	124.9	96.2	73.2	57.4	53.1	48.8	47.4
57.5°	9629.8	2275.7	234.0	145.0	103.4	76.1	56.0	43.1	40.2	34.5	34.5
60°	10240.0	2297.3	202.4	123.5	83.3	58.9	41.6	33.0	30.2	24.4	24.4
62.5°	10899.0	2270.0	170.9	106.2	64.6	43.1	28.7	24.4	24.4	14.4	12.9
65°	11025.4	2021.6	146.4	87.6	50.3	31.6	18.7	15.8	21.5	2.9	0.0
67.5°	10232.8	1567.9	126.3	67.5	37.3	24.4	14.4	7.2	18.7	0.0	0.0
70°	8182.5	996.4	101.9	48.8	28.7	20.1	11.5	2.9	14.4	0.0	0.0
72.5°	5786.2	578.6	80.4	34.5	24.4	15.8	8.6	0.0	8.6	0.0	0.0
75°	2926.1	308.7	50.3	25.8	18.7	11.5	5.7	0.0	1.4	0.0	0.0
77.5°	633.2	143.6	31.6	18.7	12.9	7.2	2.9	0.0	0.0	0.0	0.0
80°	137.8	63.2	20.1	11.5	7.2	4.3	0.0	0.0	0.0	0.0	0.0
82.5°	50.3	33.0	10.1	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.3	17.2	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	5.7	1.4	1.4	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)