

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: P321422

Luminaire Tested: **GAN-SA8D-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321422
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-SA8D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA 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: 36897 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

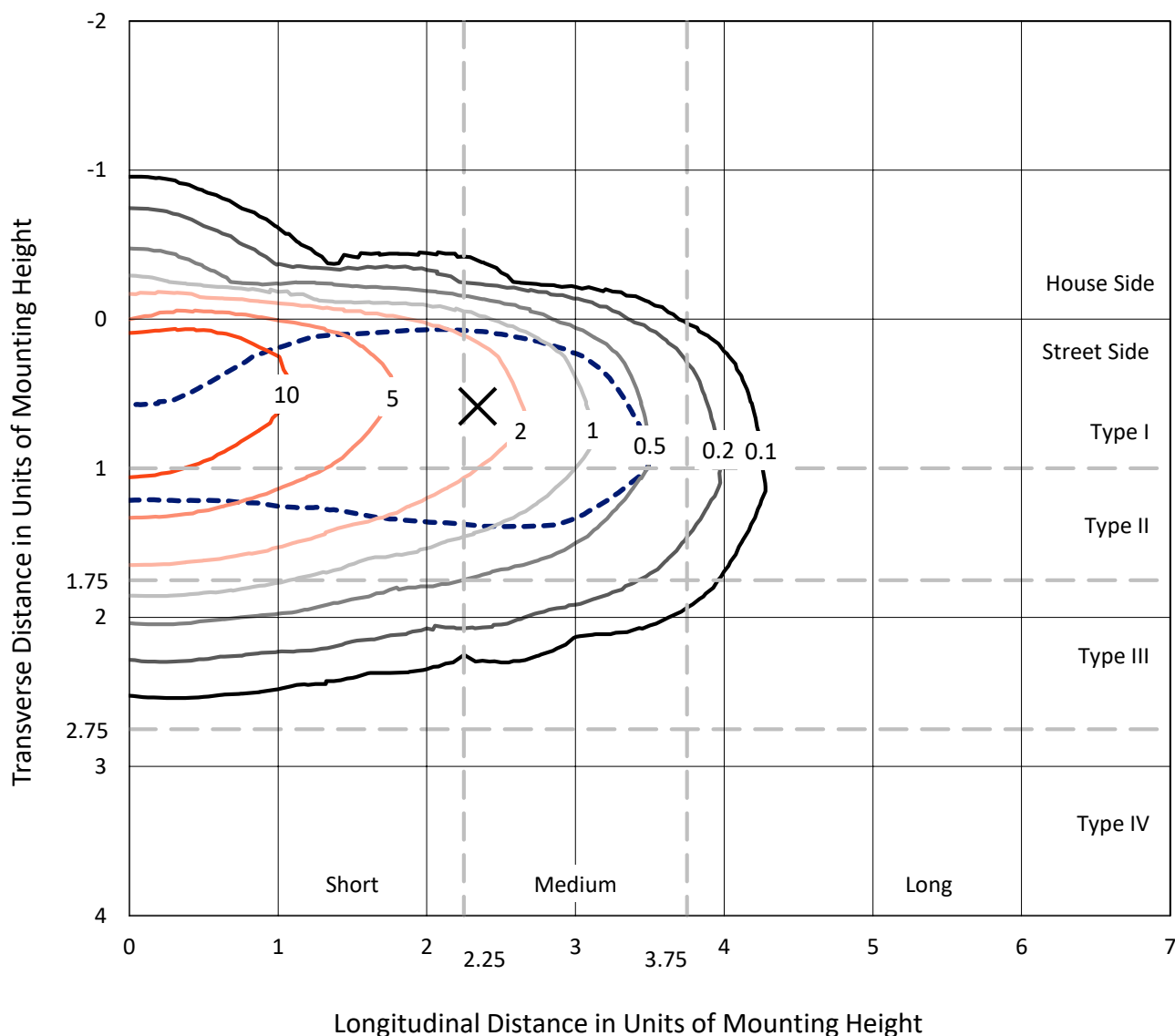
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

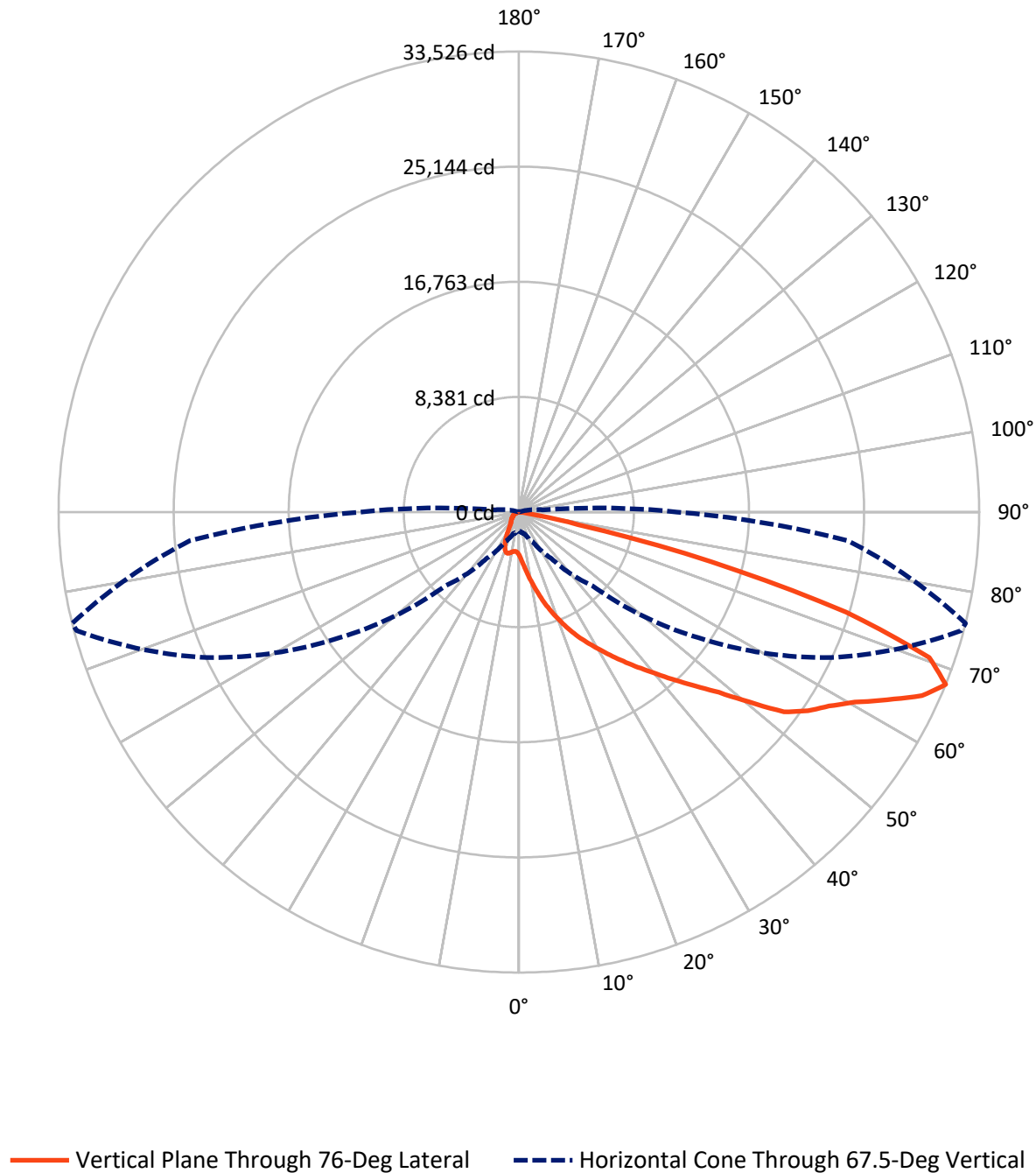
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	1832.2	0.0	1832.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35064.8	0.0	35064.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	36897.0	0.0	36897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.2	1.1
10°-20°	1542.9	4.2
20°-30°	3139.2	8.5
30°-40°	5448.6	14.8
40°-50°	7698.2	20.9
50°-60°	8730.2	23.7
60°-70°	7240.8	19.6
70°-80°	2622.8	7.1
80°-90°	85.1	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°	36897.0	100.0
0°-180°	36897.0	100.0

Coefficient of Utilization



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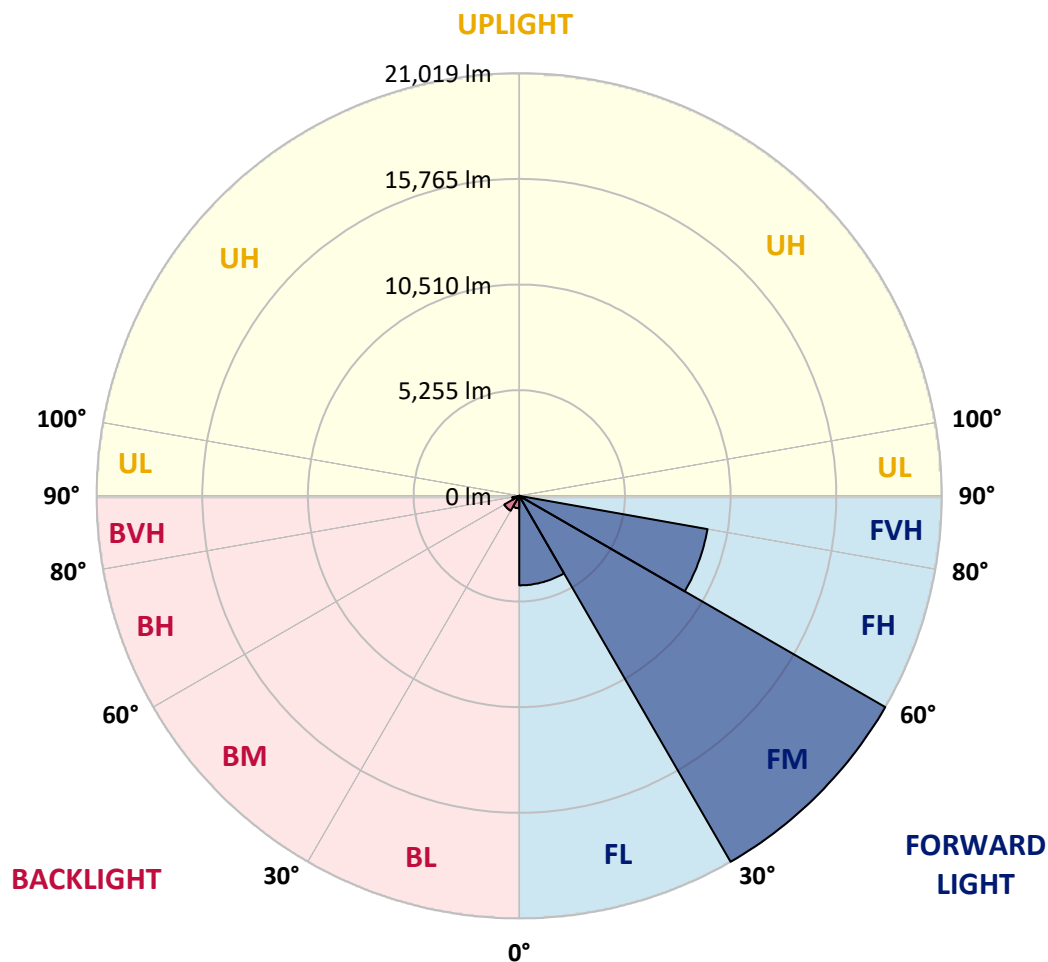
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4453.3	12.1			
FM	(30°-60°)	21019.5	57.0			
FH	(60°-80°)	9509.6	25.8			G4/12000
FVH	(80°-90°)	82.4	0.2			G1/100
BL	(0°-30°)	617.9	1.7	B2/1000		
BM	(30°-60°)	857.5	2.3	B1/1000		
BH	(60°-80°)	354.1	1.0	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9
2.5°	4672.3	4567.2	4591.4	4523.5	4400.7	4148.5	3933.4	3729.7	3492.1	3484.0	3288.4
5°	6300.3	6211.4	6200.1	6062.6	5839.5	5411.1	4994.0	4518.7	3988.4	3949.6	3534.1
7.5°	7778.0	7706.8	7680.9	7517.7	7102.2	6685.1	6141.8	5443.4	4614.1	4542.9	3865.5
10°	8912.9	8878.9	8885.4	8769.0	8413.3	8025.3	7312.3	6421.5	5323.8	5213.9	4263.2
12.5°	9773.0	9781.0	9839.2	9768.1	9569.3	9281.5	8520.0	7464.3	6109.5	5959.2	4717.5
15°	10405.1	10445.5	10552.2	10641.1	10626.6	10377.6	9679.2	8523.3	6943.7	6777.2	5223.6
17.5°	10814.1	10859.4	11014.6	11211.8	11392.9	11334.7	10797.9	9545.0	7787.7	7595.3	5765.2
20°	11173.0	11226.4	11392.9	11653.2	11991.1	12063.8	11711.4	10536.0	8630.0	8395.5	6324.5
22.5°	11950.7	11949.0	12050.9	12202.9	12524.6	12712.1	12489.0	11455.9	9462.6	9218.4	6895.2
25°	13357.2	13303.8	13268.3	13148.6	13219.8	13336.2	13211.7	12316.0	10300.0	10052.7	7474.0
27.5°	15028.9	15061.2	14773.4	14451.7	14202.7	14083.1	13879.4	13113.1	11105.1	10833.5	8039.9
30°	16792.7	16802.4	16462.9	16052.2	15504.2	15049.9	14697.4	13874.5	11932.9	11637.0	8589.5
32.5°	18383.5	18320.5	17984.2	17424.8	16732.9	16222.0	15489.6	14724.9	12809.1	12523.0	9200.6
35°	19644.5	19570.2	19161.1	18651.9	17934.1	17420.0	16538.9	15573.7	13730.6	13451.0	9813.4
37.5°	20566.1	20478.8	20058.4	19534.6	18915.4	18616.3	17756.2	16496.8	14736.2	14435.5	10458.4
40°	20886.2	20810.2	20546.7	20163.5	19665.6	19597.7	19048.0	17559.0	15830.7	15510.6	11189.2
42.5°	20695.4	20621.0	20527.3	20397.9	20191.0	20255.7	20267.0	18769.9	17046.5	16731.2	11995.9
45°	19938.8	19872.5	19969.5	20158.7	20415.7	20735.8	21379.3	20071.3	18404.5	18068.3	12928.8
47.5°	18824.9	18776.4	19044.7	19516.8	20268.6	21151.3	22396.2	21439.1	19929.1	19617.1	14092.8
50°	17240.5	17232.4	17769.2	18630.9	19786.8	21351.8	23447.0	22994.3	22047.0	21718.8	15711.1
52.5°	14773.4	14789.6	15845.3	17224.3	18941.3	21216.0	24122.8	24992.6	24510.8	24169.7	17112.8
55°	12424.4	12521.4	13269.9	15258.4	17644.7	20711.6	24355.6	25925.4	25870.5	25547.1	17892.0
57.5°	10123.8	10300.0	11021.1	12878.6	15751.5	19549.2	24227.9	26329.6	26882.5	26635.2	18920.3
60°	7630.8	7711.7	8542.7	10279.0	13321.6	17428.0	23301.5	26549.5	28266.4	28095.0	20412.5
62.5°	4855.0	5057.0	5794.3	7469.2	10372.8	14482.4	21739.8	26546.2	29997.9	30091.7	22338.0
65°	2557.6	2793.7	3184.9	4628.6	7128.0	11192.4	19390.7	26297.3	32122.2	32253.2	23843.1
67.5°	1379.0	1446.9	1653.9	2402.4	4133.9	7582.3	15939.1	25068.6	33352.6	33525.5	24053.3
70°	1008.8	1046.0	1123.6	1328.9	2080.7	4403.9	11630.6	22283.0	31766.6	31701.9	21371.2
72.5°	774.4	832.6	890.8	973.3	1196.4	2350.7	7241.2	17449.1	25346.6	24919.8	15974.6
75°	611.1	620.8	703.3	777.6	897.3	1338.6	3215.6	10162.6	15470.2	14459.8	8284.0
77.5°	488.2	494.7	543.2	607.9	721.0	879.5	995.9	3998.1	4939.0	4407.1	1797.8
80°	289.4	305.6	404.2	468.8	598.2	554.5	363.8	868.2	771.2	698.4	302.3
82.5°	161.7	174.6	228.0	370.2	417.1	265.1	181.1	234.4	181.1	176.2	85.7
85°	0.0	8.1	147.1	229.6	169.8	58.2	76.0	77.6	53.4	50.1	34.0
87.5°	0.0	0.0	45.3	43.7	6.5	9.7	17.8	25.9	21.0	21.0	17.8
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°	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9	3129.9
2.5°	3191.4	3104.1	2939.2	2777.5	2641.7	2530.1	2429.9	2389.5	2357.2	2352.3	2326.4
5°	3333.6	3157.4	2842.2	2583.5	2410.5	2287.6	2182.5	2117.9	2067.8	2048.4	2030.6
7.5°	3548.7	3281.9	2829.2	2531.8	2324.8	2117.9	1923.9	1713.7	1582.8	1532.6	1503.5
10°	3810.6	3446.8	2877.7	2517.2	2155.1	1718.6	1396.8	1130.1	1021.8	986.2	976.5
12.5°	4116.1	3652.1	2961.8	2426.7	1792.9	1220.6	963.6	873.0	848.8	837.5	837.5
15°	4466.9	3876.9	3021.6	2164.8	1325.7	923.1	834.2	792.2	766.3	751.8	753.4
17.5°	4825.9	4096.7	2992.5	1784.8	978.1	821.3	755.0	709.7	674.2	659.6	656.4
20°	5188.0	4300.4	2830.8	1328.9	827.8	745.3	670.9	620.8	585.2	570.7	567.5
22.5°	5563.1	4473.4	2546.3	974.9	743.7	661.2	588.5	538.4	504.4	491.5	485.0
25°	5928.4	4614.1	2148.6	789.0	664.5	582.0	512.5	465.6	434.9	422.0	420.3
27.5°	6269.6	4703.0	1687.8	696.8	594.9	510.9	447.8	405.8	379.9	370.2	368.6
30°	6576.7	4711.1	1248.1	628.9	533.5	449.4	391.2	354.1	331.4	321.7	318.5
32.5°	6887.1	4643.2	908.6	567.5	476.9	396.1	339.5	310.4	294.2	286.2	286.2
35°	7179.8	4486.3	708.1	514.1	422.0	344.4	299.1	278.1	268.4	260.3	260.3
37.5°	7465.9	4261.6	601.4	467.2	370.2	300.7	263.5	250.6	242.5	234.4	234.4
40°	7756.9	3978.7	546.4	423.6	328.2	266.8	234.4	223.1	215.0	208.6	206.9
42.5°	8114.2	3652.1	510.9	383.2	291.0	236.0	206.9	194.0	187.5	181.1	177.8
45°	8528.1	3370.8	481.8	342.7	260.3	210.2	179.5	166.5	156.8	148.7	147.1
47.5°	9124.7	3167.1	443.0	299.1	231.2	182.7	155.2	140.7	126.1	118.0	116.4
50°	9886.1	2999.0	392.9	260.3	202.1	155.2	129.3	111.6	98.6	90.5	90.5
52.5°	10264.4	2779.1	347.6	226.3	169.8	131.0	105.1	84.1	77.6	69.5	69.5
55°	10416.4	2611.0	302.3	192.4	140.7	108.3	82.5	64.7	59.8	55.0	53.4
57.5°	10843.2	2562.5	263.5	163.3	116.4	85.7	63.1	48.5	45.3	38.8	38.8
60°	11530.3	2586.7	228.0	139.0	93.8	66.3	46.9	37.2	34.0	27.5	27.5
62.5°	12272.4	2556.0	192.4	119.6	72.8	48.5	32.3	27.5	27.5	16.2	14.6
65°	12414.7	2276.3	164.9	98.6	56.6	35.6	21.0	17.8	24.3	3.2	0.0
67.5°	11522.2	1765.4	142.3	76.0	42.0	27.5	16.2	8.1	21.0	0.0	0.0
70°	9213.6	1122.0	114.8	55.0	32.3	22.6	12.9	3.2	16.2	0.0	0.0
72.5°	6515.3	651.5	90.5	38.8	27.5	17.8	9.7	0.0	9.7	0.0	0.0
75°	3294.8	347.6	56.6	29.1	21.0	12.9	6.5	0.0	1.6	0.0	0.0
77.5°	713.0	161.7	35.6	21.0	14.6	8.1	3.2	0.0	0.0	0.0	0.0
80°	155.2	71.1	22.6	12.9	8.1	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	56.6	37.2	11.3	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.7	19.4	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.2	6.5	1.6	1.6	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)