

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: P321432

Luminaire Tested: **GAN-SA8A-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321432
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-SA8A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 23955 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

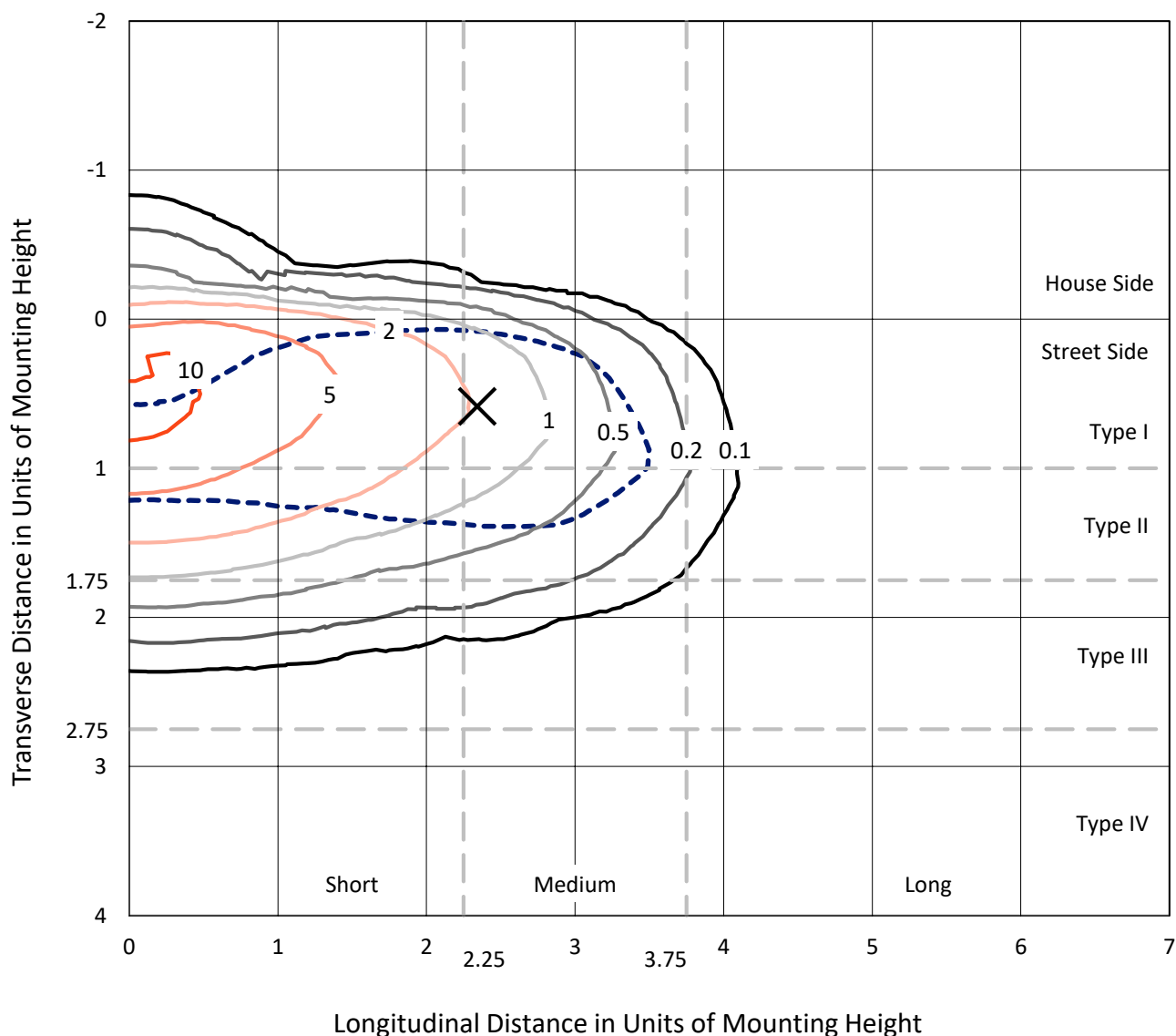
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321432
 CATALOG NUMBER: GAN-SA8A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

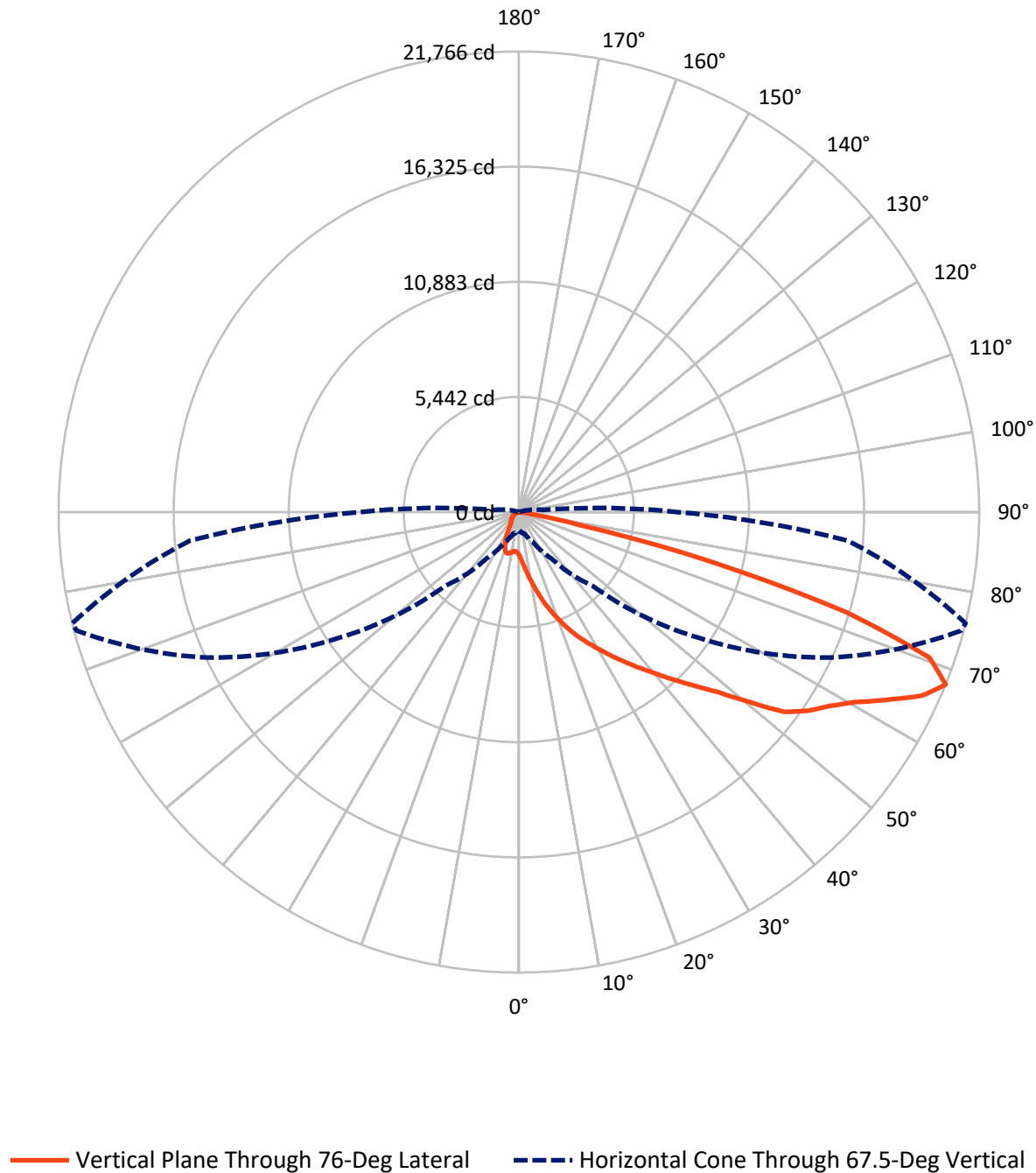
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P321432
CATALOG NUMBER: GAN-SA8A-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321432

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.5	0.0	1189.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22765.5	0.0	22765.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	23955.0	0.0	23955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.7	1.1
10°-20°	1001.7	4.2
20°-30°	2038.1	8.5
30°-40°	3537.5	14.8
40°-50°	4998.0	20.9
50°-60°	5668.0	23.7
60°-70°	4701.0	19.6
70°-80°	1702.9	7.1
80°-90°	55.2	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°	23955.0	100.0
0°-180°	23955.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321432

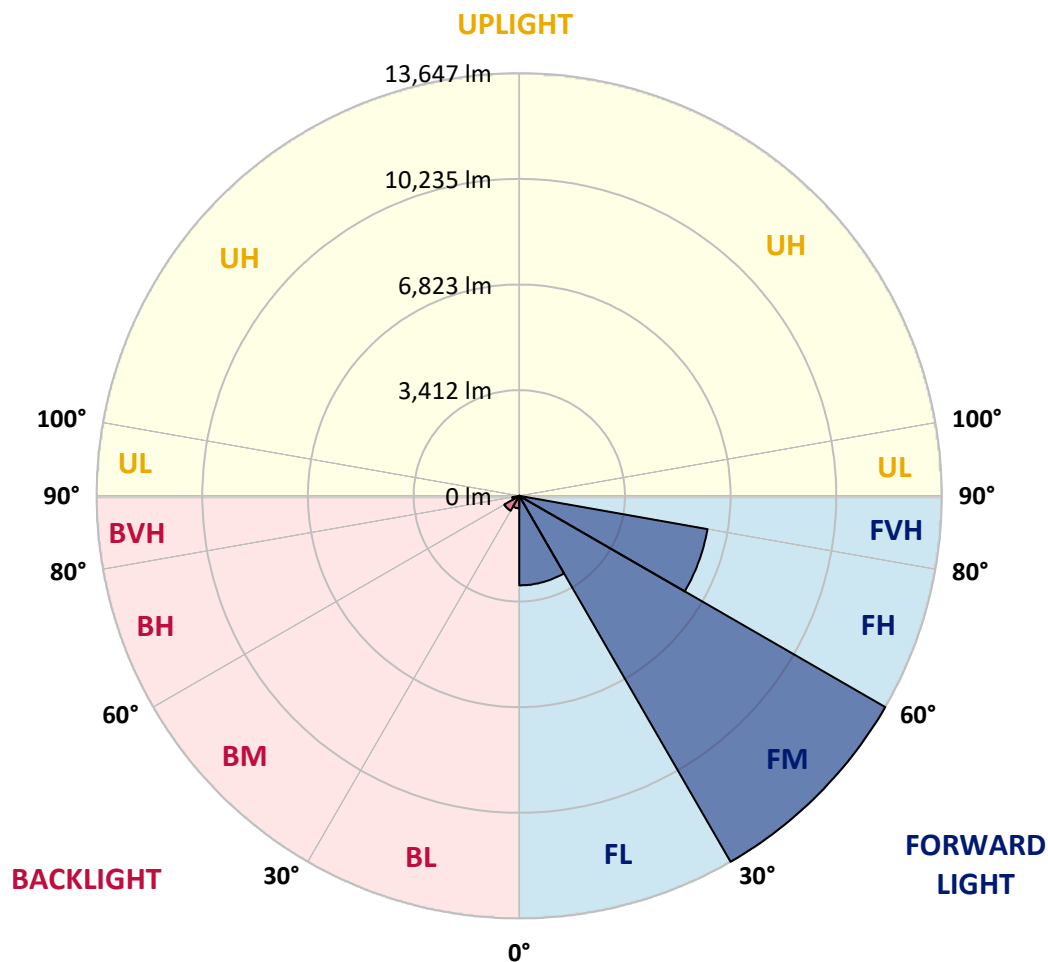
CATALOG NUMBER: GAN-SA8A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2891.3	12.1			
FM	(30°-60°)	13646.7	57.0			
FH	(60°-80°)	6174.0	25.8			G3/7500
FVH	(80°-90°)	53.5	0.2			G1/100
BL	(0°-30°)	401.2	1.7	B1/500		
BM	(30°-60°)	556.7	2.3	B1/1000		
BH	(60°-80°)	229.9	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





REPORT NUMBER: P321432

CATALOG NUMBER: GAN-SA8A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1
2.5°	3033.4	2965.2	2980.9	2936.9	2857.1	2693.3	2553.7	2421.5	2267.2	2261.9	2134.9
5°	4090.4	4032.7	4025.3	3936.1	3791.3	3513.1	3242.3	2933.7	2589.4	2564.2	2294.5
7.5°	5049.8	5003.6	4986.8	4880.8	4611.0	4340.2	3987.5	3534.1	2995.6	2949.5	2509.7
10°	5786.6	5764.6	5768.7	5693.2	5462.3	5210.3	4747.5	4169.1	3456.4	3385.0	2767.9
12.5°	6345.0	6350.2	6388.0	6341.8	6212.7	6025.9	5531.5	4846.1	3966.5	3868.9	3062.8
15°	6755.4	6781.6	6850.9	6908.6	6899.2	6737.6	6284.1	5533.6	4508.1	4400.0	3391.3
17.5°	7021.0	7050.3	7151.1	7279.2	7396.7	7358.9	7010.5	6197.0	5056.1	4931.1	3743.0
20°	7254.0	7288.6	7396.7	7565.7	7785.1	7832.3	7603.5	6840.4	5602.9	5450.7	4106.1
22.5°	7758.8	7757.8	7823.9	7922.6	8131.5	8253.2	8108.4	7437.7	6143.5	5985.0	4476.7
25°	8672.0	8637.4	8614.3	8536.6	8582.8	8658.4	8577.6	7996.1	6687.2	6526.6	4852.4
27.5°	9757.3	9778.3	9591.5	9382.6	9221.0	9143.3	9011.0	8513.5	7209.9	7033.6	5219.8
30°	10902.5	10908.8	10688.4	10421.7	10065.9	9771.0	9542.2	9007.9	7747.3	7555.2	5576.7
32.5°	11935.3	11894.4	11676.1	11312.9	10863.6	10532.0	10056.5	9560.0	8316.2	8130.4	5973.4
35°	12754.0	12705.7	12440.2	12109.5	11643.5	11309.7	10737.7	10111.1	8914.5	8732.9	6371.2
37.5°	13352.3	13295.6	13022.7	12682.6	12280.6	12086.5	11528.1	10710.4	9567.3	9372.1	6790.0
40°	13560.1	13510.8	13339.7	13090.9	12767.7	12723.6	12366.7	11400.0	10277.9	10070.1	7264.5
42.5°	13436.3	13388.0	13327.1	13243.1	13108.8	13150.8	13158.1	12186.2	11067.3	10862.6	7788.2
45°	12945.0	12902.0	12965.0	13087.8	13254.7	13462.5	13880.3	13031.1	11949.0	11730.6	8393.9
47.5°	12221.9	12190.4	12364.6	12671.1	13159.2	13732.3	14540.5	13919.1	12938.8	12736.2	9149.6
50°	11193.2	11188.0	11536.4	12095.9	12846.4	13862.4	15222.7	14928.8	14313.8	14100.7	10200.3
52.5°	9591.5	9602.0	10287.4	11182.7	12297.4	13774.3	15661.5	16226.2	15913.4	15691.9	11110.3
55°	8066.4	8129.4	8615.3	9906.4	11455.6	13446.8	15812.6	16831.8	16796.1	16586.2	11616.2
57.5°	6572.8	6687.2	7155.3	8361.3	10226.5	12692.1	15729.7	17094.2	17453.2	17292.6	12283.8
60°	4954.2	5006.7	5546.2	6673.5	8648.9	11315.0	15128.3	17237.0	18351.7	18240.4	13252.6
62.5°	3152.0	3283.2	3761.9	4849.3	6734.4	9402.6	14114.3	17234.9	19475.8	19536.7	14502.7
65°	1660.5	1813.8	2067.8	3005.1	4627.8	7266.6	12589.2	17073.2	20855.0	20940.1	15479.9
67.5°	895.3	939.4	1073.8	1559.7	2683.9	4922.8	10348.3	16275.5	21653.8	21766.1	15616.3
70°	655.0	679.1	729.5	862.8	1350.9	2859.2	7551.0	14467.0	20624.1	20582.1	13875.0
72.5°	502.8	540.6	578.3	631.9	776.7	1526.2	4701.3	11328.6	16456.1	16178.9	10371.4
75°	396.8	403.1	456.6	504.9	582.5	869.1	2087.7	6598.0	10043.9	9387.9	5378.3
77.5°	317.0	321.2	352.7	394.7	468.1	571.0	646.6	2595.7	3206.6	2861.3	1167.2
80°	187.9	198.4	262.4	304.4	388.4	360.0	236.2	563.6	500.7	453.4	196.3
82.5°	105.0	113.4	148.0	240.4	270.8	172.1	117.6	152.2	117.6	114.4	55.6
85°	0.0	5.2	95.5	149.0	110.2	37.8	49.3	50.4	34.6	32.5	22.0
87.5°	0.0	0.0	29.4	28.3	4.2	6.3	11.5	16.8	13.6	13.6	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P321432

CATALOG NUMBER: GAN-SA8A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1
2.5°	2072.0	2015.3	1908.2	1803.3	1715.1	1642.7	1577.6	1551.3	1530.4	1527.2	1510.4
5°	2164.3	2049.9	1845.2	1677.3	1565.0	1485.2	1417.0	1375.0	1342.5	1329.9	1318.3
7.5°	2303.9	2130.7	1836.8	1643.7	1509.4	1375.0	1249.1	1112.6	1027.6	995.0	976.2
10°	2474.0	2237.8	1868.3	1634.3	1399.2	1115.8	906.9	733.7	663.4	640.3	634.0
12.5°	2672.4	2371.1	1922.9	1575.5	1164.0	792.5	625.6	566.8	551.1	543.7	543.7
15°	2900.1	2517.0	1961.8	1405.5	860.7	599.3	541.6	514.3	497.5	488.1	489.1
17.5°	3133.1	2659.8	1942.9	1158.8	635.0	533.2	490.2	460.8	437.7	428.2	426.1
20°	3368.3	2792.0	1837.9	862.8	537.4	483.9	435.6	403.1	380.0	370.5	368.4
22.5°	3611.8	2904.3	1653.2	632.9	482.8	429.3	382.1	349.5	327.5	319.1	314.9
25°	3849.0	2995.6	1395.0	512.2	431.4	377.9	332.7	302.3	282.3	274.0	272.9
27.5°	4070.5	3053.4	1095.8	452.4	386.3	331.7	290.7	263.5	246.7	240.4	239.3
30°	4269.9	3058.6	810.3	408.3	346.4	291.8	254.0	229.9	215.2	208.9	206.8
32.5°	4471.4	3014.5	589.9	368.4	309.6	257.2	220.4	201.5	191.0	185.8	185.8
35°	4661.4	2912.7	459.7	333.8	274.0	223.6	194.2	180.5	174.2	169.0	169.0
37.5°	4847.2	2766.8	390.5	303.3	240.4	195.2	171.1	162.7	157.4	152.2	152.2
40°	5036.1	2583.1	354.8	275.0	213.1	173.2	152.2	144.8	139.6	135.4	134.4
42.5°	5268.1	2371.1	331.7	248.8	188.9	153.2	134.4	126.0	121.8	117.6	115.5
45°	5536.8	2188.5	312.8	222.5	169.0	136.5	116.5	108.1	101.8	96.6	95.5
47.5°	5924.1	2056.2	287.6	194.2	150.1	118.6	100.8	91.3	81.9	76.6	75.6
50°	6418.5	1947.1	255.1	169.0	131.2	100.8	84.0	72.4	64.0	58.8	58.8
52.5°	6664.1	1804.3	225.7	146.9	110.2	85.0	68.2	54.6	50.4	45.1	45.1
55°	6762.7	1695.1	196.3	124.9	91.3	70.3	53.5	42.0	38.8	35.7	34.6
57.5°	7039.8	1663.7	171.1	106.0	75.6	55.6	40.9	31.5	29.4	25.2	25.2
60°	7485.9	1679.4	148.0	90.3	60.9	43.0	30.4	24.1	22.0	17.8	17.8
62.5°	7967.7	1659.5	124.9	77.7	47.2	31.5	21.0	17.8	17.8	10.5	9.4
65°	8060.1	1477.9	107.1	64.0	36.7	23.1	13.6	11.5	15.7	2.1	0.0
67.5°	7480.7	1146.2	92.4	49.3	27.3	17.8	10.5	5.2	13.6	0.0	0.0
70°	5981.8	728.4	74.5	35.7	21.0	14.7	8.4	2.1	10.5	0.0	0.0
72.5°	4230.0	423.0	58.8	25.2	17.8	11.5	6.3	0.0	6.3	0.0	0.0
75°	2139.1	225.7	36.7	18.9	13.6	8.4	4.2	0.0	1.0	0.0	0.0
77.5°	462.9	105.0	23.1	13.6	9.4	5.2	2.1	0.0	0.0	0.0	0.0
80°	100.8	46.2	14.7	8.4	5.2	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	24.1	7.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	12.6	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	4.2	1.0	1.0	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)