

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: P321452

Luminaire Tested: **GAN-SA8C-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321452
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-SA8C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 36360 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

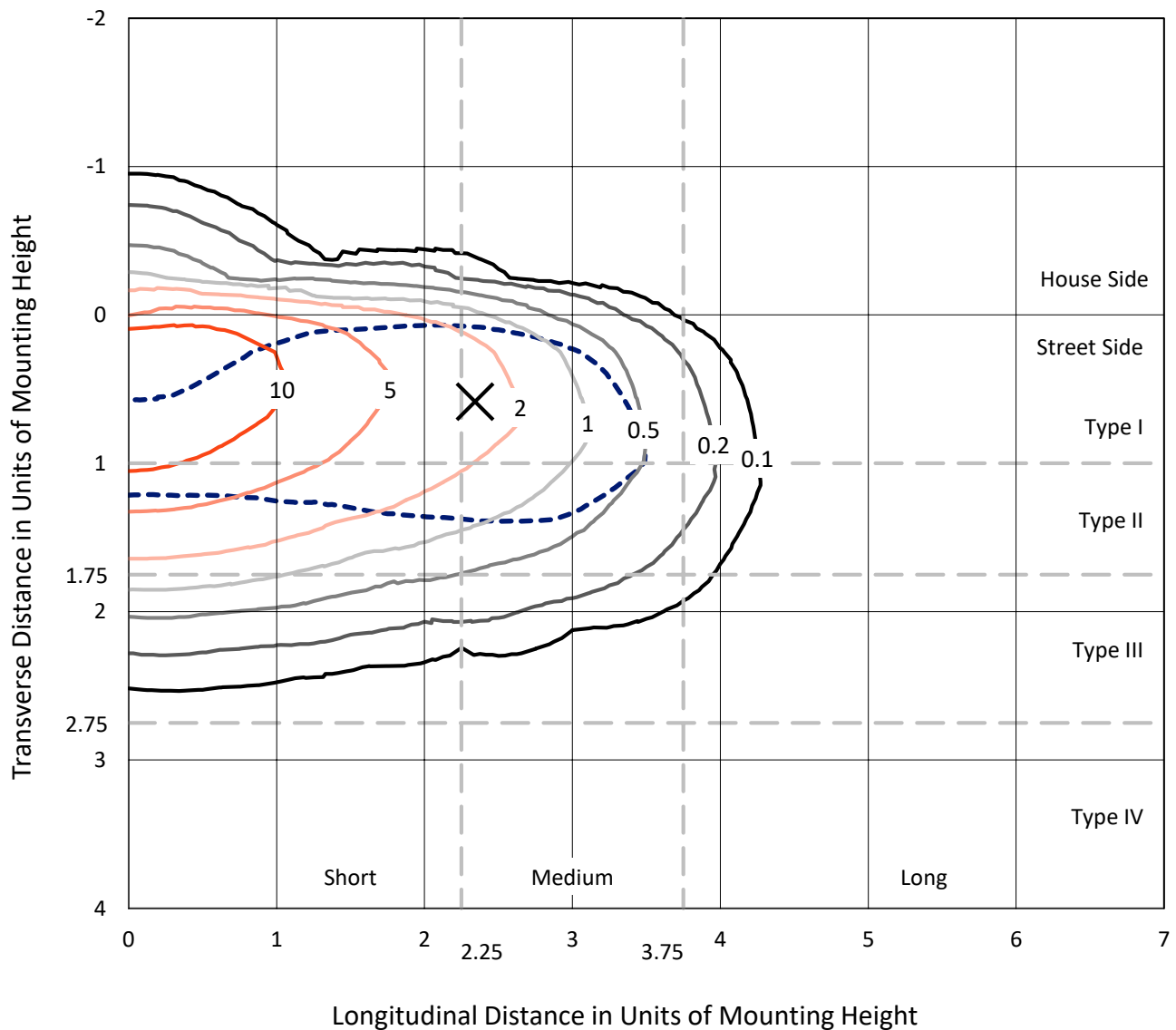
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

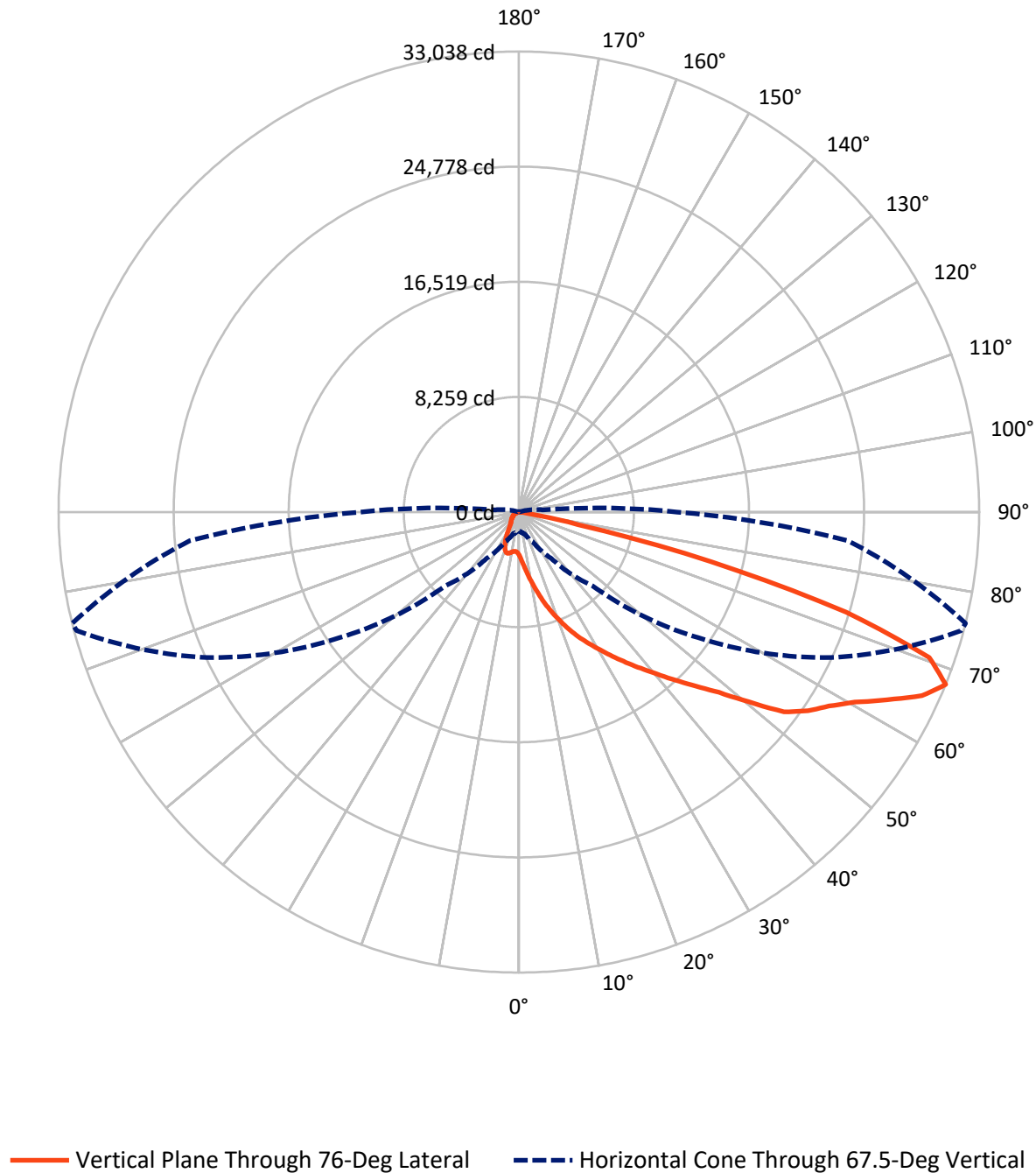
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	1805.5	0.0	1805.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	34554.5	0.0	34554.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	36360.0	0.0	36360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	1.1
10°-20°	1520.4	4.2
20°-30°	3093.5	8.5
30°-40°	5369.3	14.8
40°-50°	7586.2	20.9
50°-60°	8603.1	23.7
60°-70°	7135.5	19.6
70°-80°	2584.7	7.1
80°-90°	83.8	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°	36360.0	100.0
0°-180°	36360.0	100.0

Coefficient of Utilization



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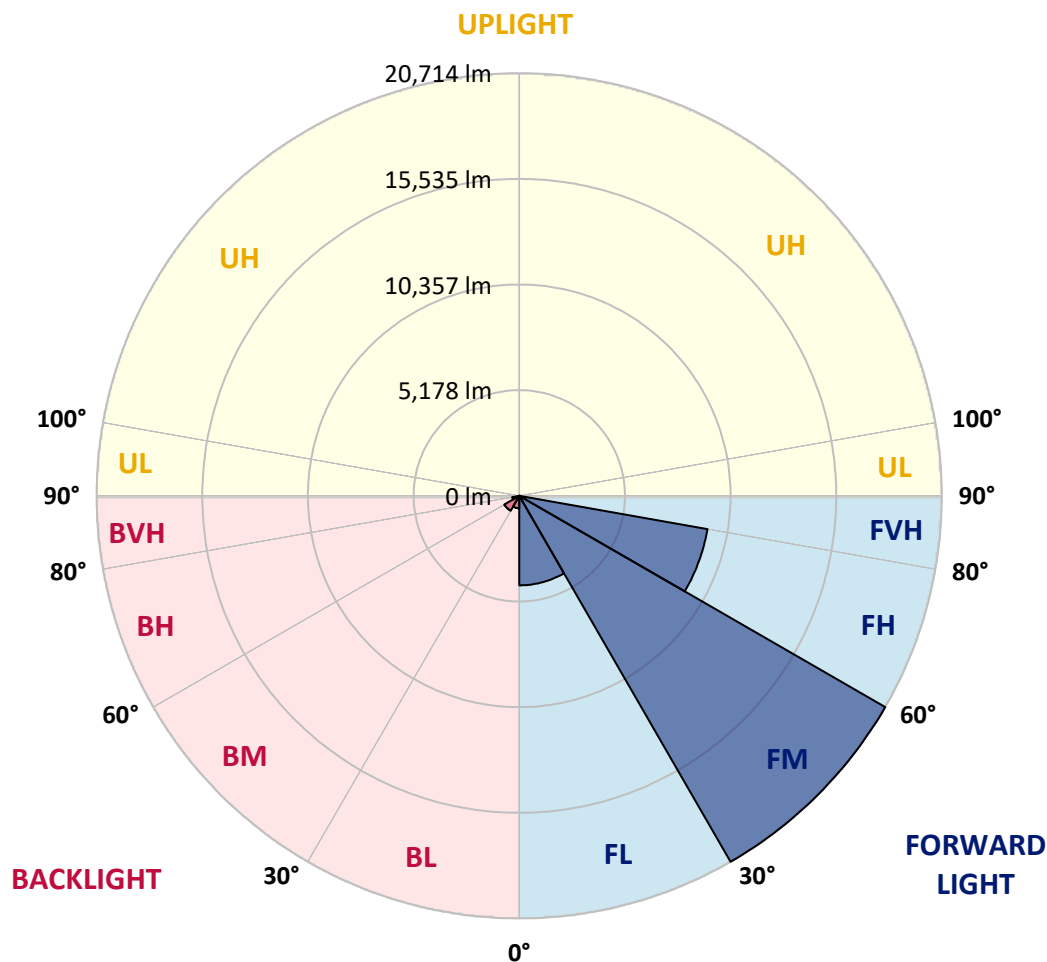
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4388.5	12.1			
FM	(30°-60°)	20713.6	57.0			
FH	(60°-80°)	9371.2	25.8			G4/12000
FVH	(80°-90°)	81.2	0.2			G1/100
BL	(0°-30°)	608.9	1.7	B2/1000		
BM	(30°-60°)	845.0	2.3	B1/1000		
BH	(60°-80°)	348.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.6	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°	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4
2.5°	4604.3	4500.7	4524.6	4457.7	4336.6	4088.1	3876.2	3675.4	3441.3	3433.3	3240.5
5°	6208.6	6121.0	6109.8	5974.4	5754.5	5332.3	4921.3	4452.9	3930.4	3892.1	3482.7
7.5°	7664.8	7594.7	7569.2	7408.2	6998.8	6587.8	6052.5	5364.2	4546.9	4476.8	3809.3
10°	8783.2	8749.7	8756.1	8641.4	8290.9	7908.5	7205.9	6328.1	5246.3	5138.0	4201.2
12.5°	9630.7	9638.7	9696.0	9625.9	9430.0	9146.4	8396.0	7355.7	6020.6	5872.4	4648.9
15°	10253.7	10293.5	10398.6	10486.3	10471.9	10226.6	9538.3	8399.2	6842.7	6678.6	5147.5
17.5°	10656.7	10701.3	10854.3	11048.6	11227.1	11169.7	10640.8	9406.1	7674.3	7484.7	5681.3
20°	11010.4	11063.0	11227.1	11483.6	11816.6	11888.2	11540.9	10382.7	8504.4	8273.3	6232.5
22.5°	11776.7	11775.1	11875.5	12025.3	12342.3	12527.1	12307.3	11289.2	9324.8	9084.3	6794.9
25°	13162.8	13110.2	13075.2	12957.3	13027.4	13142.1	13019.4	12136.8	10150.1	9906.3	7365.2
27.5°	14810.1	14842.0	14558.4	14241.4	13996.0	13878.1	13677.4	12922.2	10943.5	10675.8	7922.8
30°	16548.3	16557.8	16223.3	15818.6	15278.5	14830.8	14483.5	13672.6	11759.2	11467.7	8464.5
32.5°	18116.0	18053.8	17722.4	17171.2	16489.3	15985.9	15264.2	14510.6	12622.7	12340.7	9066.7
35°	19358.6	19285.3	18882.3	18380.4	17673.1	17166.4	16298.1	15347.0	13530.8	13255.2	9670.6
37.5°	20266.7	20180.7	19766.5	19250.3	18640.1	18345.4	17497.8	16256.7	14521.8	14225.4	10306.2
40°	20582.2	20507.3	20247.6	19870.0	19379.3	19312.4	18770.8	17303.4	15600.3	15284.9	11026.3
42.5°	20394.2	20320.9	20228.5	20101.1	19897.1	19960.9	19972.0	18496.7	16798.4	16487.7	11821.3
45°	19648.6	19583.3	19678.9	19865.3	20118.6	20434.0	21068.1	19779.2	18136.7	17805.3	12740.6
47.5°	18550.9	18503.1	18767.6	19232.8	19973.6	20843.5	22070.2	21127.1	19639.0	19331.5	13887.7
50°	16989.6	16981.6	17510.6	18359.7	19498.8	21041.0	23105.8	22659.7	21726.1	21402.7	15482.4
52.5°	14558.4	14574.3	15614.7	16973.7	18665.6	20907.2	23771.7	24628.8	24154.1	23817.9	16863.7
55°	12243.5	12339.1	13076.8	15036.4	17387.9	20410.1	24001.1	25548.1	25493.9	25175.3	17631.6
57.5°	9976.4	10150.1	10860.7	12691.2	15522.3	19264.6	23875.3	25946.4	26491.3	26247.5	18644.9
60°	7519.8	7599.4	8418.3	10129.4	13127.7	17174.4	22962.4	26163.1	27855.0	27686.1	20115.4
62.5°	4784.3	4983.4	5709.9	7360.5	10221.8	14271.6	21423.4	26159.9	29561.3	29653.7	22012.9
65°	2520.4	2753.0	3138.5	4561.3	7024.3	11029.5	19108.5	25914.5	31654.7	31783.8	23496.1
67.5°	1359.0	1425.9	1629.8	2367.5	4073.7	7472.0	15707.1	24703.7	32867.1	33037.6	23703.2
70°	994.1	1030.8	1107.3	1309.6	2050.4	4339.8	11461.3	21958.7	31304.2	31240.5	21060.1
72.5°	763.1	820.5	877.8	959.1	1178.9	2316.5	7135.8	17195.1	24977.8	24557.2	15742.1
75°	602.2	611.8	693.0	766.3	884.2	1319.1	3168.8	10014.7	15245.1	14249.3	8163.4
77.5°	481.1	487.5	535.3	599.0	710.6	866.7	981.4	3939.9	4867.1	4343.0	1771.6
80°	285.2	301.1	398.3	462.0	589.5	546.5	358.5	855.5	759.9	688.3	297.9
82.5°	159.3	172.1	224.6	364.8	411.0	261.3	178.4	231.0	178.4	173.7	84.4
85°	0.0	8.0	145.0	226.2	167.3	57.4	74.9	76.5	52.6	49.4	33.5
87.5°	0.0	0.0	44.6	43.0	6.4	9.6	17.5	25.5	20.7	20.7	17.5
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°	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4	3084.4
2.5°	3144.9	3058.9	2896.4	2737.1	2603.2	2493.3	2394.5	2354.7	2322.8	2318.1	2292.6
5°	3285.1	3111.5	2800.8	2545.9	2375.4	2254.3	2150.8	2087.1	2037.7	2018.5	2001.0
7.5°	3497.0	3234.1	2788.1	2494.9	2291.0	2087.1	1895.9	1688.8	1559.7	1510.3	1481.6
10°	3755.1	3396.6	2835.8	2480.6	2123.7	1693.5	1376.5	1113.6	1006.9	971.8	962.3
12.5°	4056.2	3599.0	2918.7	2391.4	1766.8	1202.8	949.5	860.3	836.4	825.3	825.3
15°	4401.9	3820.4	2977.6	2133.3	1306.4	909.7	822.1	780.7	755.2	740.8	742.4
17.5°	4755.6	4037.1	2949.0	1758.9	963.9	809.3	744.0	699.4	664.4	650.0	646.8
20°	5112.5	4237.8	2789.6	1309.6	815.7	734.5	661.2	611.8	576.7	562.4	559.2
22.5°	5482.1	4408.3	2509.2	960.7	732.9	651.6	579.9	530.5	497.1	484.3	478.0
25°	5842.2	4546.9	2117.3	777.5	654.8	573.5	505.0	458.8	428.6	415.8	414.2
27.5°	6178.3	4634.5	1663.3	686.7	586.3	503.4	441.3	399.9	374.4	364.8	363.2
30°	6481.0	4642.5	1229.9	619.7	525.7	442.9	385.5	348.9	326.6	317.0	313.9
32.5°	6786.9	4575.6	895.4	559.2	470.0	390.3	334.6	305.9	290.0	282.0	282.0
35°	7075.3	4421.1	697.8	506.6	415.8	339.3	294.7	274.0	264.5	256.5	256.5
37.5°	7357.3	4199.6	592.7	460.4	364.8	296.3	259.7	246.9	239.0	231.0	231.0
40°	7644.0	3920.8	538.5	417.4	323.4	262.9	231.0	219.9	211.9	205.5	203.9
42.5°	7996.1	3599.0	503.4	377.6	286.8	232.6	203.9	191.2	184.8	178.4	175.2
45°	8404.0	3321.8	474.8	337.8	256.5	207.1	176.8	164.1	154.5	146.6	145.0
47.5°	8991.9	3121.0	436.5	294.7	227.8	180.0	152.9	138.6	124.3	116.3	114.7
50°	9742.2	2955.3	387.1	256.5	199.1	152.9	127.5	109.9	97.2	89.2	89.2
52.5°	10115.0	2738.7	342.5	223.0	167.3	129.0	103.6	82.8	76.5	68.5	68.5
55°	10264.8	2573.0	297.9	189.6	138.6	106.7	81.3	63.7	58.9	54.2	52.6
57.5°	10685.4	2525.2	259.7	160.9	114.7	84.4	62.1	47.8	44.6	38.2	38.2
60°	11362.5	2549.1	224.6	137.0	92.4	65.3	46.2	36.6	33.5	27.1	27.1
62.5°	12093.8	2518.8	189.6	117.9	71.7	47.8	31.9	27.1	27.1	15.9	14.3
65°	12234.0	2243.2	162.5	97.2	55.8	35.0	20.7	17.5	23.9	3.2	0.0
67.5°	11354.5	1739.7	140.2	74.9	41.4	27.1	15.9	8.0	20.7	0.0	0.0
70°	9079.5	1105.7	113.1	54.2	31.9	22.3	12.7	3.2	15.9	0.0	0.0
72.5°	6420.5	642.0	89.2	38.2	27.1	17.5	9.6	0.0	9.6	0.0	0.0
75°	3246.9	342.5	55.8	28.7	20.7	12.7	6.4	0.0	1.6	0.0	0.0
77.5°	702.6	159.3	35.0	20.7	14.3	8.0	3.2	0.0	0.0	0.0	0.0
80°	152.9	70.1	22.3	12.7	8.0	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	55.8	36.6	11.2	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.3	19.1	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	6.4	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)