

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: P321464

Luminaire Tested: **GAN-SA0D-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321464
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-SA0D-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 49260 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

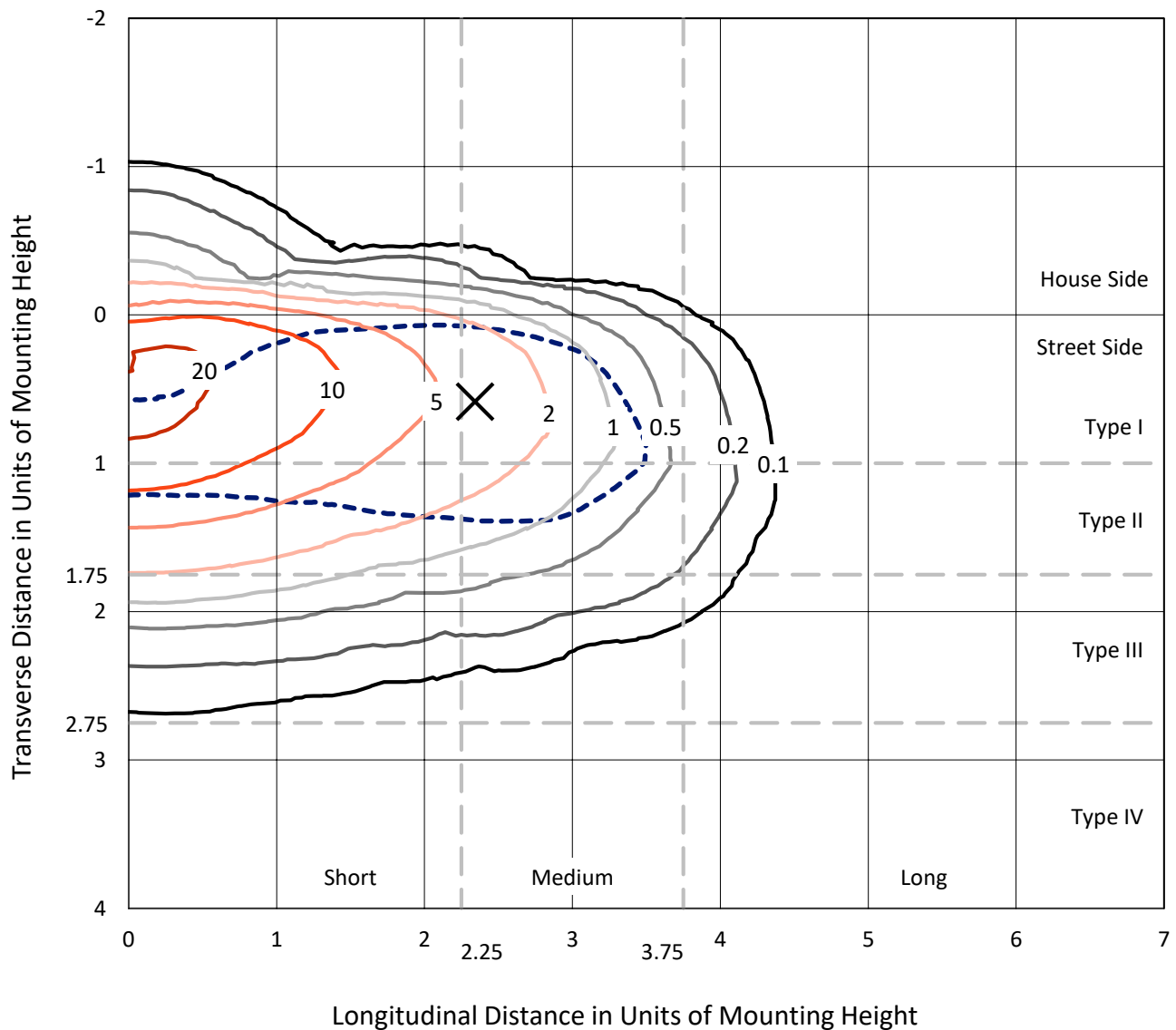
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

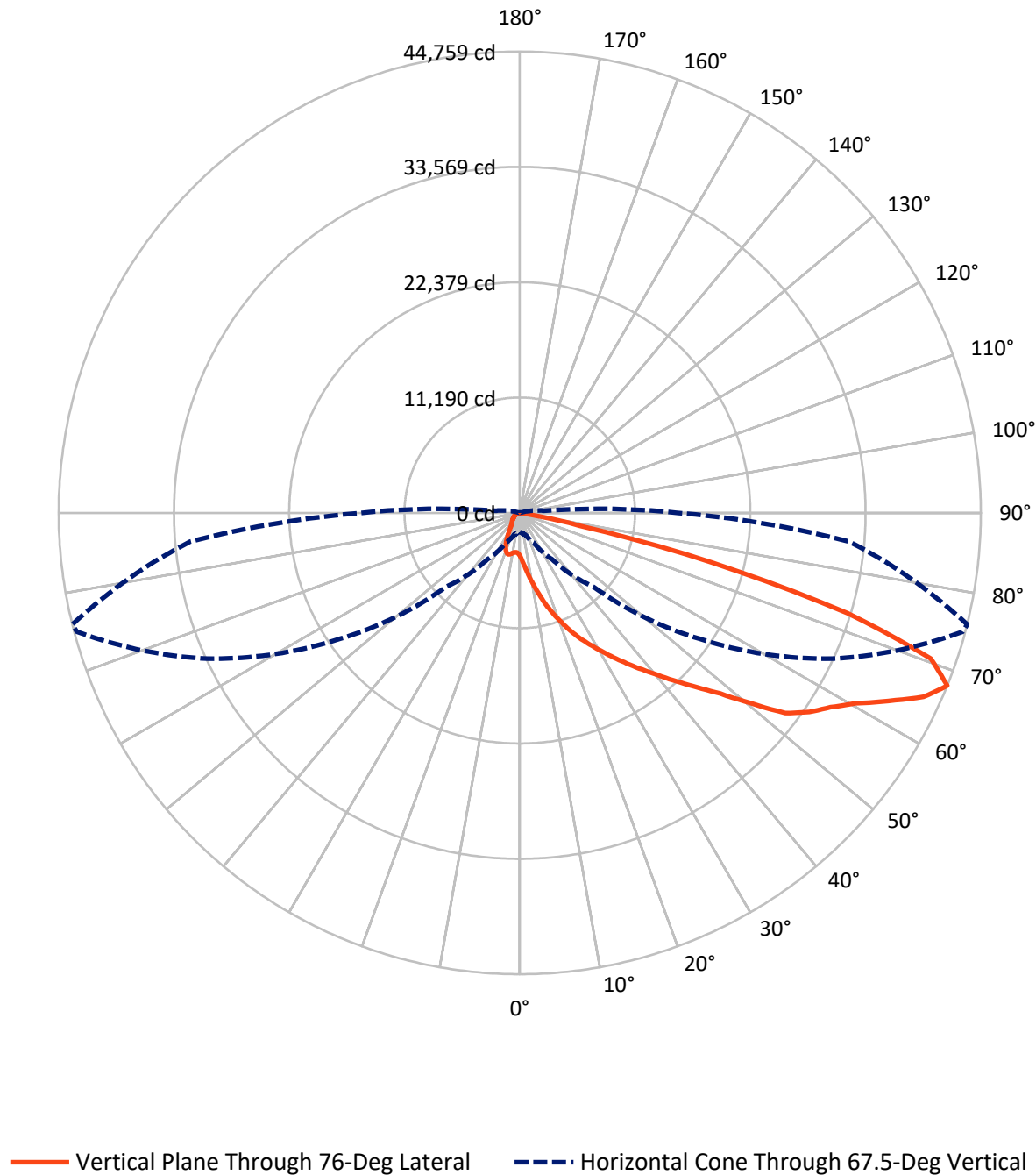
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.5 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	2446.1	0.0	2446.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	46813.9	0.0	46813.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	49260.0	0.0	49260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.6	1.1
10°-20°	2059.8	4.2
20°-30°	4191.0	8.5
30°-40°	7274.3	14.8
40°-50°	10277.7	20.9
50°-60°	11655.3	23.7
60°-70°	9667.0	19.6
70°-80°	3501.7	7.1
80°-90°	113.6	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°	49260.0	100.0
0°-180°	49260.0	100.0

Coefficient of Utilization



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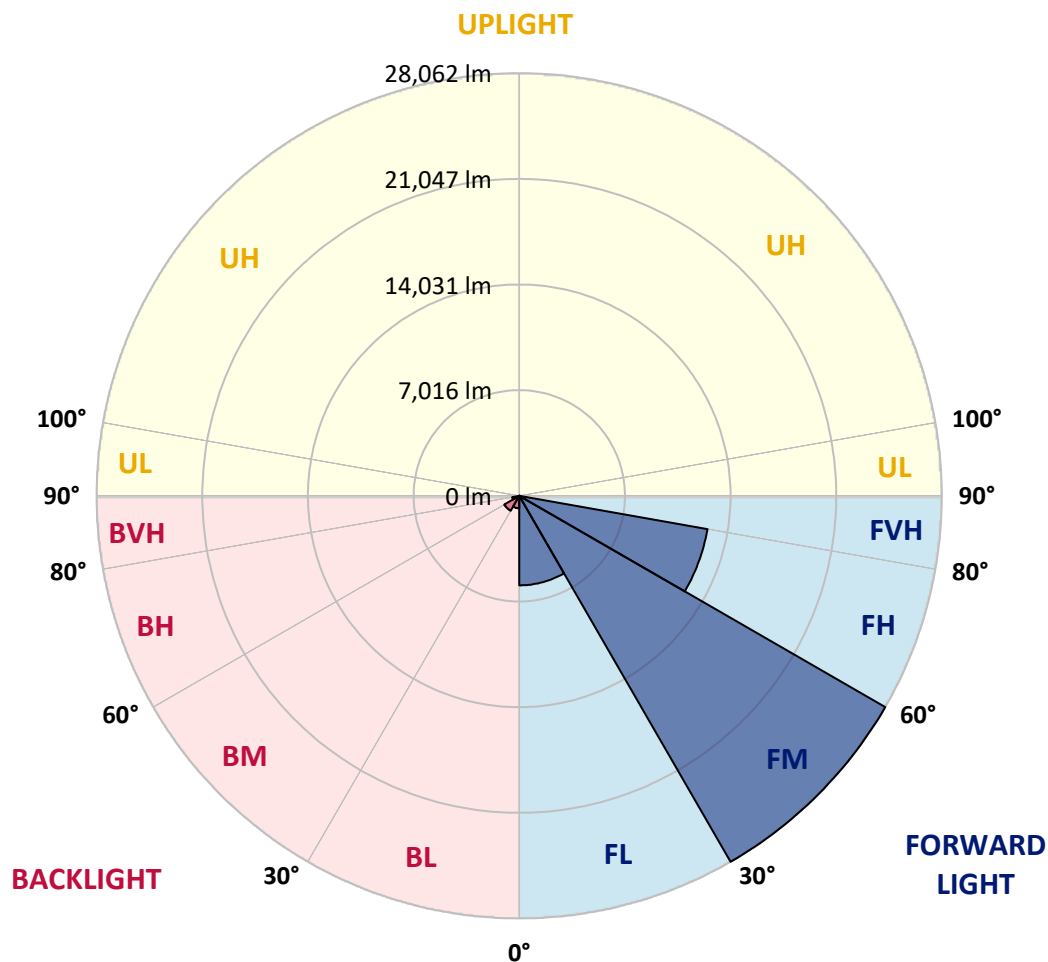
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5945.5	12.1			
FM	(30°-60°)	28062.4	57.0			
FH	(60°-80°)	12695.9	25.8			G5
FVH	(80°-90°)	110.0	0.2			G2/225
BL	(0°-30°)	825.0	1.7	B2/1000		
BM	(30°-60°)	1144.9	2.3	B2/2500		
BH	(60°-80°)	472.7	1.0	B1/500		G1/500
BVH	(80°-90°)	3.6	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7
2.5°	6237.8	6097.5	6129.9	6039.2	5875.2	5538.5	5251.4	4979.4	4662.2	4651.4	4390.2
5°	8411.3	8292.6	8277.5	8094.0	7796.2	7224.2	6667.3	6032.7	5324.8	5273.0	4718.3
7.5°	10384.1	10289.1	10254.6	10036.6	9481.9	8925.0	8199.8	7267.4	6160.1	6065.1	5160.7
10°	11899.3	11854.0	11862.6	11707.2	11232.3	10714.3	9762.5	8573.2	7107.6	6960.9	5691.7
12.5°	13047.6	13058.4	13136.1	13041.1	12775.6	12391.4	11374.8	9965.4	8156.6	7955.9	6298.2
15°	13891.5	13945.5	14087.9	14206.6	14187.2	13854.8	12922.4	11379.1	9270.4	9048.0	6973.8
17.5°	14437.6	14498.0	14705.2	14968.5	15210.3	15132.6	14416.0	12743.2	10397.0	10140.2	7696.9
20°	14916.7	14988.0	15210.3	15557.8	16008.9	16106.0	15635.5	14066.3	11521.6	11208.6	8443.7
22.5°	15954.9	15952.8	16088.8	16291.7	16721.2	16971.5	16673.7	15294.5	12633.2	12307.2	9205.6
25°	17832.8	17761.5	17714.0	17554.3	17649.3	17804.7	17638.5	16442.7	13751.2	13421.0	9978.3
27.5°	20064.5	20107.7	19723.5	19294.0	18961.6	18801.9	18529.9	17506.8	14826.1	14463.5	10733.8
30°	22419.4	22432.3	21979.1	21430.8	20699.1	20092.6	19622.1	18523.4	15931.2	15536.2	11467.6
32.5°	24543.2	24459.1	24010.1	23263.3	22339.5	21657.4	20679.7	19658.8	17101.1	16719.0	12283.5
35°	26226.8	26127.5	25581.4	24901.5	23943.2	23256.8	22080.5	20791.9	18331.3	17957.9	13101.5
37.5°	27457.1	27340.5	26779.3	26080.0	25253.4	24854.0	23705.8	22024.4	19673.9	19272.4	13962.7
40°	27884.5	27783.0	27431.2	26919.6	26254.9	26164.2	25430.3	23442.5	21135.1	20707.8	14938.3
42.5°	27629.8	27530.5	27405.3	27232.6	26956.3	27042.7	27057.8	25059.1	22758.2	22337.3	16015.4
45°	26619.6	26531.1	26660.6	26913.2	27256.4	27683.7	28542.8	26796.6	24571.3	24122.3	17260.8
47.5°	25132.5	25067.7	25426.0	26056.3	27059.9	28238.4	29900.4	28622.6	26606.7	26190.1	18814.8
50°	23017.2	23006.5	23723.0	24873.5	26416.7	28506.1	31303.4	30699.0	29434.2	28996.0	20975.4
52.5°	19723.5	19745.1	21154.5	22995.7	25287.9	28324.8	32205.6	33366.8	32723.6	32268.2	22846.7
55°	16587.4	16716.9	17716.2	20371.0	23556.8	27651.3	32516.4	34612.2	34538.8	34107.1	23887.1
57.5°	13515.9	13751.2	14713.9	17193.9	21029.4	26099.4	32345.9	35151.8	35890.0	35559.7	25259.8
60°	10187.7	10295.6	11405.0	13723.1	17785.3	23267.6	31109.1	35445.3	37737.6	37508.8	27252.0
62.5°	6481.7	6751.5	7735.7	9971.8	13848.3	19335.0	29024.1	35441.0	40049.2	40174.4	29822.7
65°	3414.6	3729.7	4252.1	6179.5	9516.4	14942.6	25887.9	35108.6	42885.4	43060.2	31832.2
67.5°	1841.1	1931.8	2208.0	3207.4	5519.0	10122.9	21279.7	33468.2	44527.9	44758.9	32112.8
70°	1346.8	1396.5	1500.1	1774.2	2777.9	5879.5	15527.6	29749.3	42410.5	42324.2	28532.0
72.5°	1033.9	1111.6	1189.3	1299.4	1597.2	3138.3	9667.5	23295.7	33839.5	33269.7	21327.2
75°	815.9	828.8	938.9	1038.2	1197.9	1787.2	4293.1	13567.7	20653.8	19304.8	11059.7
77.5°	651.8	660.5	725.2	811.6	962.6	1174.2	1329.6	5337.7	6593.9	5883.8	2400.1
80°	386.4	407.9	539.6	625.9	798.6	740.3	485.6	1159.1	1029.6	932.4	403.6
82.5°	215.8	233.1	304.3	494.3	556.9	354.0	241.7	313.0	241.7	235.3	114.4
85°	0.0	10.8	196.4	306.5	226.6	77.7	101.4	103.6	71.2	66.9	45.3
87.5°	0.0	0.0	60.4	58.3	8.6	13.0	23.7	34.5	28.1	28.1	23.7
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°	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7	4178.7
2.5°	4260.7	4144.1	3924.0	3708.1	3526.8	3377.9	3244.1	3190.1	3147.0	3140.5	3105.9
5°	4450.6	4215.4	3794.5	3449.1	3218.2	3054.1	2913.8	2827.5	2760.6	2734.7	2711.0
7.5°	4737.7	4381.6	3777.2	3380.1	3103.8	2827.5	2568.5	2287.9	2113.1	2046.2	2007.3
10°	5087.4	4601.7	3842.0	3360.6	2877.2	2294.4	1864.9	1508.7	1364.1	1316.6	1303.7
12.5°	5495.3	4875.8	3954.2	3239.8	2393.7	1629.6	1286.4	1165.5	1133.2	1118.1	1118.1
15°	5963.7	5175.9	4034.1	2890.1	1769.9	1232.5	1113.7	1057.6	1023.1	1003.7	1005.8
17.5°	6442.8	5469.4	3995.2	2382.9	1305.8	1096.5	1008.0	947.5	900.1	880.6	876.3
20°	6926.3	5741.4	3779.4	1774.2	1105.1	995.0	895.7	828.8	781.3	761.9	757.6
22.5°	7427.1	5972.3	3399.5	1301.5	992.9	882.8	785.7	718.7	673.4	656.2	647.5
25°	7914.9	6160.1	2868.5	1053.3	887.1	777.0	684.2	621.6	580.6	563.3	561.2
27.5°	8370.3	6278.8	2253.4	930.3	794.3	682.1	597.9	541.8	507.2	494.3	492.1
30°	8780.4	6289.6	1666.3	839.6	712.3	600.0	522.3	472.7	442.5	429.5	425.2
32.5°	9194.8	6198.9	1213.0	757.6	636.7	528.8	453.3	414.4	392.8	382.0	382.0
35°	9585.5	5989.6	945.4	686.4	563.3	459.7	399.3	371.2	358.3	347.5	347.5
37.5°	9967.5	5689.6	802.9	623.8	494.3	401.5	351.8	334.6	323.8	313.0	313.0
40°	10356.0	5311.8	729.5	565.5	438.2	356.1	313.0	297.9	287.1	278.4	276.3
42.5°	10833.0	4875.8	682.1	511.5	388.5	315.1	276.3	259.0	250.4	241.7	237.4
45°	11385.6	4500.3	643.2	457.6	347.5	280.6	239.6	222.3	209.4	198.6	196.4
47.5°	12182.0	4228.3	591.4	399.3	308.7	243.9	207.2	187.8	168.4	157.6	155.4
50°	13198.7	4003.8	524.5	347.5	269.8	207.2	172.7	148.9	131.7	120.9	120.9
52.5°	13703.7	3710.3	464.1	302.2	226.6	174.8	140.3	112.2	103.6	92.8	92.8
55°	13906.6	3485.8	403.6	256.9	187.8	144.6	110.1	86.3	79.9	73.4	71.2
57.5°	14476.4	3421.1	351.8	218.0	155.4	114.4	84.2	64.8	60.4	51.8	51.8
60°	15393.8	3453.5	304.3	185.6	125.2	88.5	62.6	49.6	45.3	36.7	36.7
62.5°	16384.5	3412.4	256.9	159.7	97.1	64.8	43.2	36.7	36.7	21.6	19.4
65°	16574.4	3039.0	220.2	131.7	75.5	47.5	28.1	23.7	32.4	4.3	0.0
67.5°	15383.0	2357.0	189.9	101.4	56.1	36.7	21.6	10.8	28.1	0.0	0.0
70°	12300.8	1497.9	153.2	73.4	43.2	30.2	17.3	4.3	21.6	0.0	0.0
72.5°	8698.4	869.8	120.9	51.8	36.7	23.7	13.0	0.0	13.0	0.0	0.0
75°	4398.8	464.1	75.5	38.9	28.1	17.3	8.6	0.0	2.2	0.0	0.0
77.5°	951.9	215.8	47.5	28.1	19.4	10.8	4.3	0.0	0.0	0.0	0.0
80°	207.2	95.0	30.2	17.3	10.8	6.5	0.0	0.0	0.0	0.0	0.0
82.5°	75.5	49.6	15.1	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.0	25.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	8.6	2.2	2.2	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)