

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: P321197

Luminaire Tested: **GAN-SA3B-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321197
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-SA3B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 11776 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

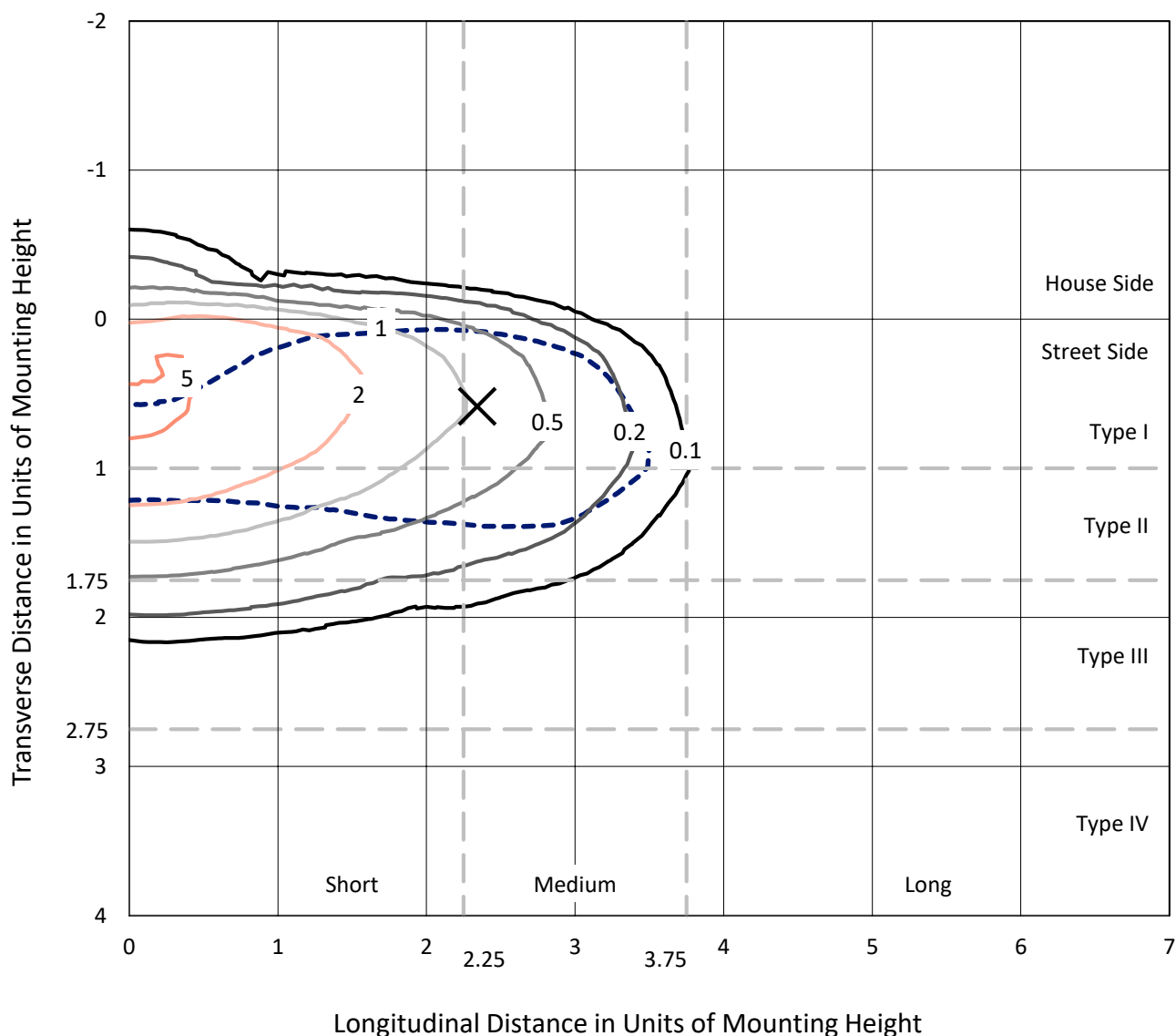
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

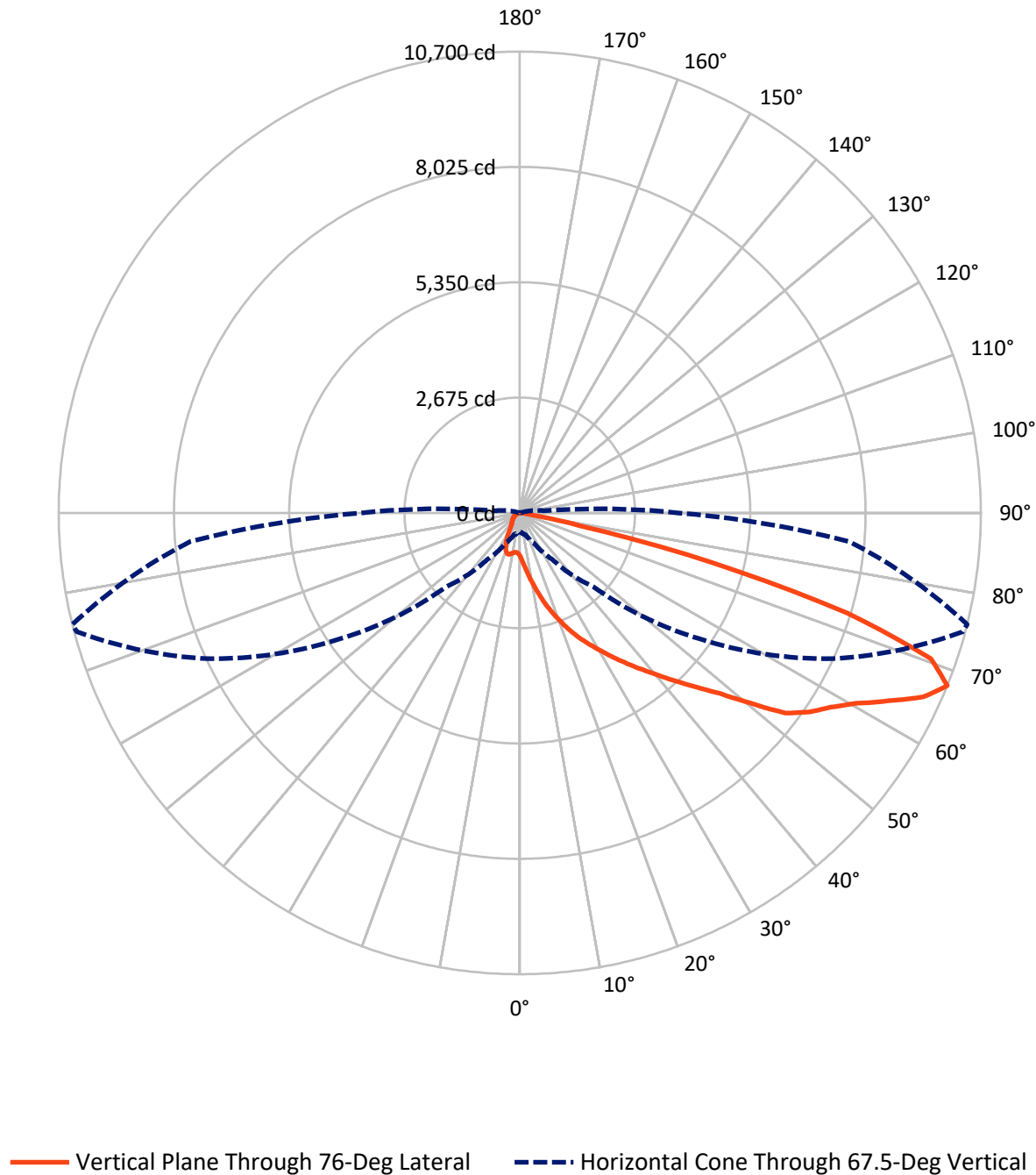
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	584.8	0.0	584.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11191.2	0.0	11191.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	11776.0	0.0	11776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.1
10°-20°	492.4	4.2
20°-30°	1001.9	8.5
30°-40°	1739.0	14.8
40°-50°	2457.0	20.9
50°-60°	2786.3	23.7
60°-70°	2311.0	19.6
70°-80°	837.1	7.1
80°-90°	27.1	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°	11776.0	100.0
0°-180°	11776.0	100.0

Coefficient of Utilization



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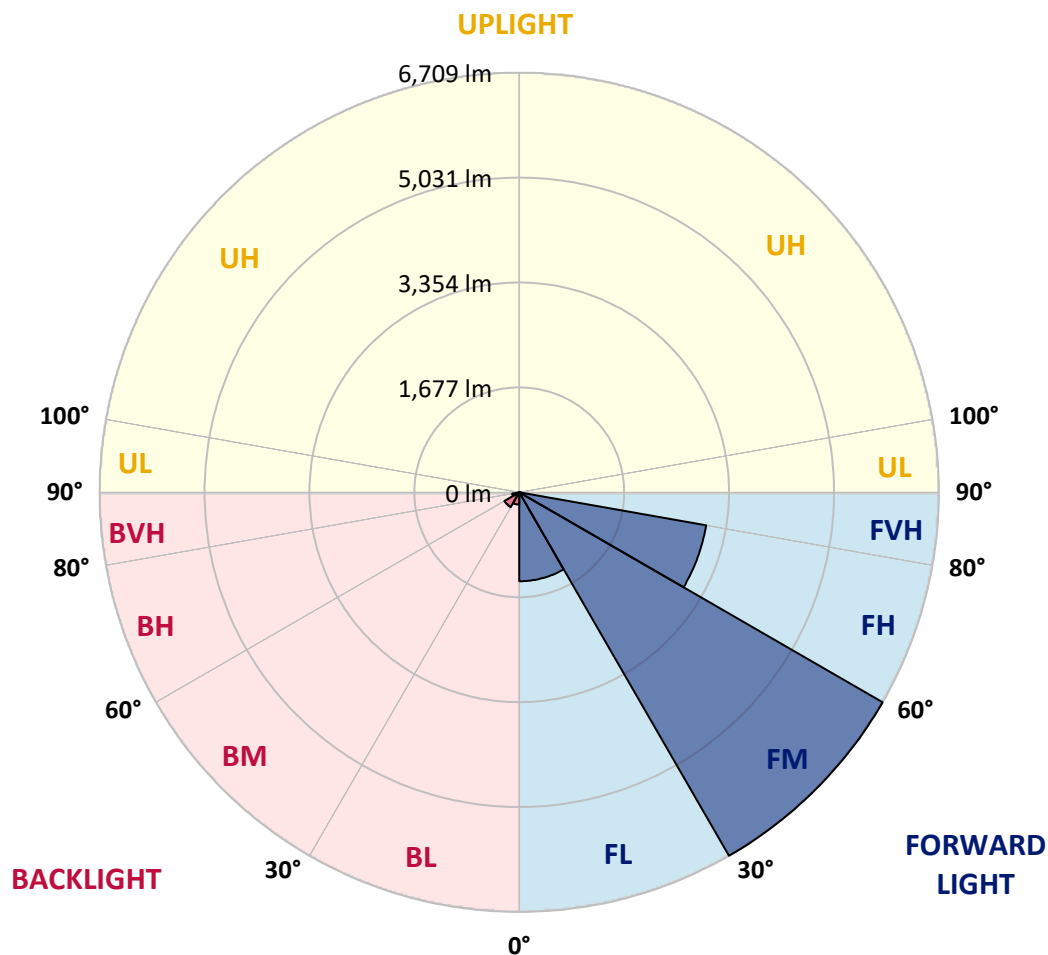
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1421.3	12.1			
FM	(30°-60°)	6708.5	57.0			
FH	(60°-80°)	3035.1	25.8			G2/5000
FVH	(80°-90°)	26.3	0.2			G1/100
BL	(0°-30°)	197.2	1.7	B1/500		
BM	(30°-60°)	273.7	2.3	B1/1000		
BH	(60°-80°)	113.0	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	1491.2	1457.7	1465.4	1443.7	1404.5	1324.0	1255.4	1190.4	1114.5	1111.9	1049.5
5°	2010.8	1982.4	1978.8	1934.9	1863.7	1727.0	1593.9	1442.2	1272.9	1260.5	1127.9
7.5°	2482.4	2459.7	2451.4	2399.3	2266.7	2133.6	1960.2	1737.3	1472.6	1449.9	1233.7
10°	2844.6	2833.8	2835.9	2798.7	2685.2	2561.3	2333.8	2049.5	1699.1	1664.0	1360.7
12.5°	3119.1	3121.7	3140.3	3117.6	3054.1	2962.3	2719.2	2382.3	1949.9	1901.9	1505.6
15°	3320.9	3333.8	3367.8	3396.2	3391.6	3312.1	3089.2	2720.3	2216.2	2163.0	1667.1
17.5°	3451.4	3465.9	3515.4	3578.4	3636.1	3617.6	3446.3	3046.4	2485.5	2424.1	1840.0
20°	3566.0	3583.0	3636.1	3719.2	3827.1	3850.3	3737.8	3362.7	2754.3	2679.5	2018.5
22.5°	3814.2	3813.6	3846.1	3894.7	3997.3	4057.2	3986.0	3656.3	3020.1	2942.1	2200.7
25°	4263.1	4246.0	4234.7	4196.5	4219.2	4256.4	4216.6	3930.8	3287.3	3208.4	2385.4
27.5°	4796.6	4806.9	4715.1	4612.4	4532.9	4494.7	4429.7	4185.1	3544.3	3457.6	2566.0
30°	5359.5	5362.6	5254.3	5123.2	4948.3	4803.3	4690.8	4428.2	3808.5	3714.1	2741.4
32.5°	5867.3	5847.1	5739.8	5561.3	5340.4	5177.4	4943.6	4699.6	4088.1	3996.8	2936.5
35°	6269.7	6246.0	6115.4	5952.9	5723.8	5559.7	5278.5	4970.5	4382.3	4293.0	3132.0
37.5°	6563.8	6536.0	6401.8	6234.6	6037.0	5941.6	5667.1	5265.1	4703.2	4607.2	3337.9
40°	6666.0	6641.8	6557.6	6435.4	6276.4	6254.8	6079.3	5604.1	5052.5	4950.4	3571.1
42.5°	6605.1	6581.4	6551.5	6510.2	6444.1	6464.8	6468.4	5990.6	5440.5	5339.9	3828.6
45°	6363.6	6342.5	6373.4	6433.8	6515.9	6618.0	6823.4	6405.9	5874.0	5766.6	4126.3
47.5°	6008.1	5992.6	6078.3	6229.0	6468.9	6750.6	7147.9	6842.5	6360.5	6261.0	4497.8
50°	5502.5	5499.9	5671.2	5946.2	6315.1	6814.6	7483.3	7338.8	7036.5	6931.7	5014.3
52.5°	4715.1	4720.2	5057.2	5497.3	6045.3	6771.3	7699.0	7976.6	7822.8	7714.0	5461.7
55°	3965.3	3996.3	4235.2	4869.9	5631.5	6610.3	7773.3	8274.3	8256.8	8153.6	5710.4
57.5°	3231.1	3287.3	3517.5	4110.3	5027.2	6239.3	7732.5	8403.3	8579.8	8500.8	6038.6
60°	2435.4	2461.2	2726.5	3280.6	4251.7	5562.3	7436.9	8473.5	9021.5	8966.8	6514.8
62.5°	1549.5	1614.0	1849.3	2383.8	3310.6	4622.2	6938.4	8472.5	9574.1	9604.0	7129.4
65°	816.3	891.6	1016.5	1477.3	2275.0	3572.2	6188.7	8393.0	10252.1	10293.9	7609.7
67.5°	440.1	461.8	527.9	766.8	1319.4	2420.0	5087.1	8000.9	10644.8	10700.0	7676.8
70°	322.0	333.8	358.6	424.1	664.1	1405.5	3712.0	7111.8	10138.6	10117.9	6820.8
72.5°	247.2	265.7	284.3	310.6	381.8	750.2	2311.1	5569.0	8089.6	7953.4	5098.4
75°	195.0	198.1	224.5	248.2	286.4	427.2	1026.3	3243.5	4937.5	4615.0	2643.9
77.5°	155.8	157.9	173.4	194.0	230.1	280.7	317.8	1276.0	1576.3	1406.6	573.8
80°	92.4	97.5	129.0	149.6	190.9	177.0	116.1	277.1	246.1	222.9	96.5
82.5°	51.6	55.7	72.8	118.2	133.1	84.6	57.8	74.8	57.8	56.2	27.3
85°	0.0	2.6	47.0	73.3	54.2	18.6	24.3	24.8	17.0	16.0	10.8
87.5°	0.0	0.0	14.4	13.9	2.1	3.1	5.7	8.3	6.7	6.7	5.7
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°	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9	998.9
2.5°	1018.6	990.7	938.1	886.5	843.1	807.5	775.5	762.6	752.3	750.8	742.5
5°	1064.0	1007.7	907.1	824.5	769.3	730.1	696.6	675.9	659.9	653.8	648.1
7.5°	1132.6	1047.4	903.0	808.0	742.0	675.9	614.0	546.9	505.1	489.2	479.9
10°	1216.2	1100.1	918.5	803.4	687.8	548.5	445.8	360.7	326.1	314.8	311.7
12.5°	1313.7	1165.6	945.3	774.5	572.2	389.6	307.5	278.6	270.9	267.3	267.3
15°	1425.7	1237.3	964.4	690.9	423.1	294.6	266.2	252.8	244.6	239.9	240.4
17.5°	1540.2	1307.5	955.1	569.6	312.2	262.1	241.0	226.5	215.2	210.5	209.5
20°	1655.8	1372.5	903.5	424.1	264.2	237.9	214.1	198.1	186.8	182.1	181.1
22.5°	1775.5	1427.7	812.7	311.1	237.4	211.0	187.8	171.8	161.0	156.9	154.8
25°	1892.1	1472.6	685.7	251.8	212.1	185.8	163.6	148.6	138.8	134.7	134.2
27.5°	2001.0	1501.0	538.7	222.4	189.9	163.1	142.9	129.5	121.3	118.2	117.6
30°	2099.0	1503.6	398.3	200.7	170.3	143.4	124.9	113.0	105.8	102.7	101.6
32.5°	2198.1	1481.9	290.0	181.1	152.2	126.4	108.4	99.1	93.9	91.3	91.3
35°	2291.5	1431.9	226.0	164.1	134.7	109.9	95.5	88.7	85.7	83.1	83.1
37.5°	2382.8	1360.1	191.9	149.1	118.2	96.0	84.1	80.0	77.4	74.8	74.8
40°	2475.7	1269.8	174.4	135.2	104.7	85.1	74.8	71.2	68.6	66.6	66.0
42.5°	2589.7	1165.6	163.1	122.3	92.9	75.3	66.0	61.9	59.9	57.8	56.8
45°	2721.8	1075.8	153.8	109.4	83.1	67.1	57.3	53.1	50.1	47.5	47.0
47.5°	2912.2	1010.8	141.4	95.5	73.8	58.3	49.5	44.9	40.2	37.7	37.2
50°	3155.2	957.2	125.4	83.1	64.5	49.5	41.3	35.6	31.5	28.9	28.9
52.5°	3276.0	887.0	110.9	72.2	54.2	41.8	33.5	26.8	24.8	22.2	22.2
55°	3324.5	833.3	96.5	61.4	44.9	34.6	26.3	20.6	19.1	17.5	17.0
57.5°	3460.7	817.8	84.1	52.1	37.2	27.3	20.1	15.5	14.4	12.4	12.4
60°	3680.0	825.6	72.8	44.4	29.9	21.2	15.0	11.9	10.8	8.8	8.8
62.5°	3916.8	815.8	61.4	38.2	23.2	15.5	10.3	8.8	8.8	5.2	4.6
65°	3962.2	726.5	52.6	31.5	18.1	11.4	6.7	5.7	7.7	1.0	0.0
67.5°	3677.4	563.5	45.4	24.3	13.4	8.8	5.2	2.6	6.7	0.0	0.0
70°	2940.6	358.1	36.6	17.5	10.3	7.2	4.1	1.0	5.2	0.0	0.0
72.5°	2079.4	207.9	28.9	12.4	8.8	5.7	3.1	0.0	3.1	0.0	0.0
75°	1051.6	110.9	18.1	9.3	6.7	4.1	2.1	0.0	0.5	0.0	0.0
77.5°	227.5	51.6	11.4	6.7	4.6	2.6	1.0	0.0	0.0	0.0	0.0
80°	49.5	22.7	7.2	4.1	2.6	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	18.1	11.9	3.6	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	6.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.1	0.5	0.5	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)