

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: P321538

Luminaire Tested: **GAN-SA4D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20131 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

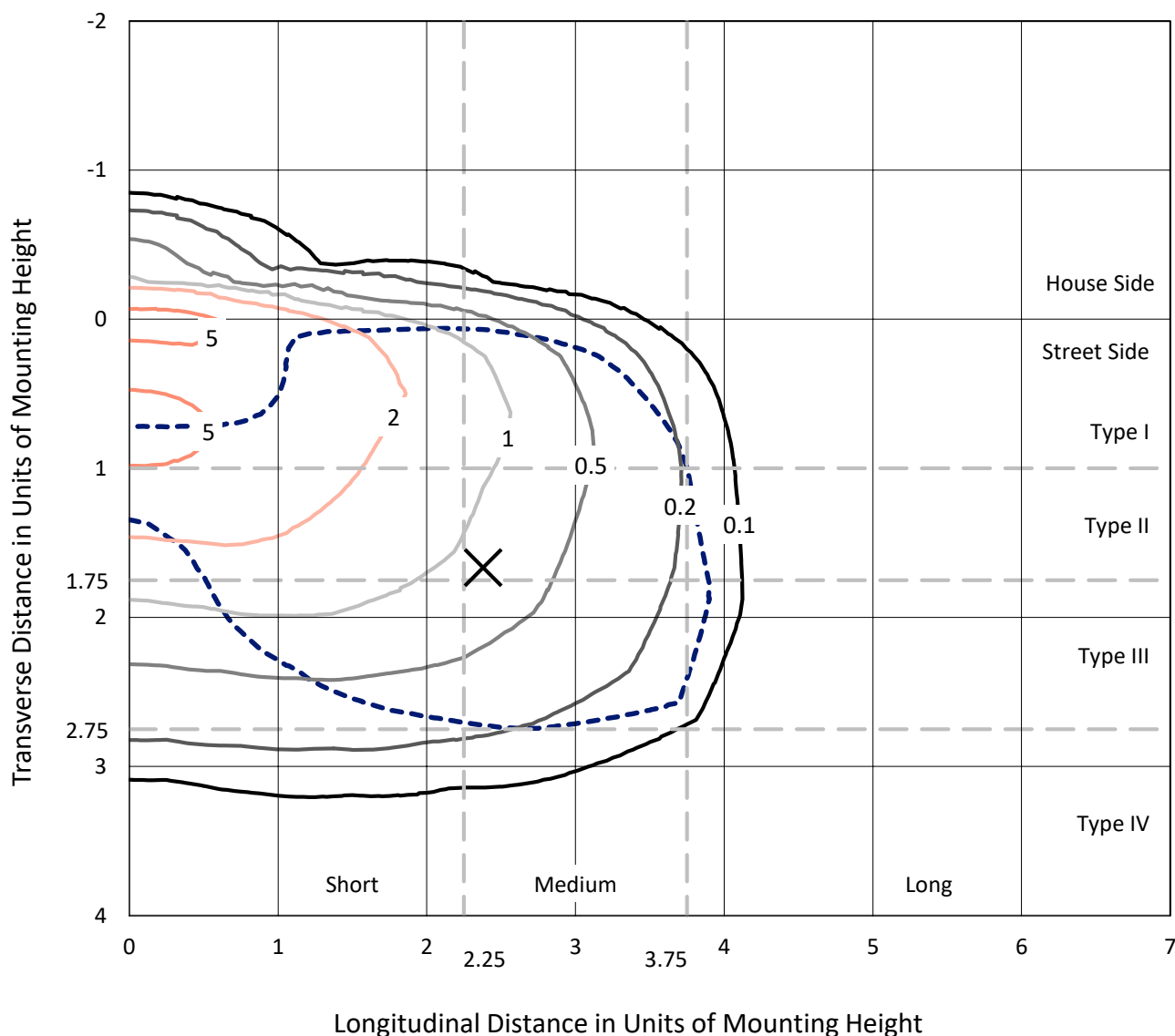
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

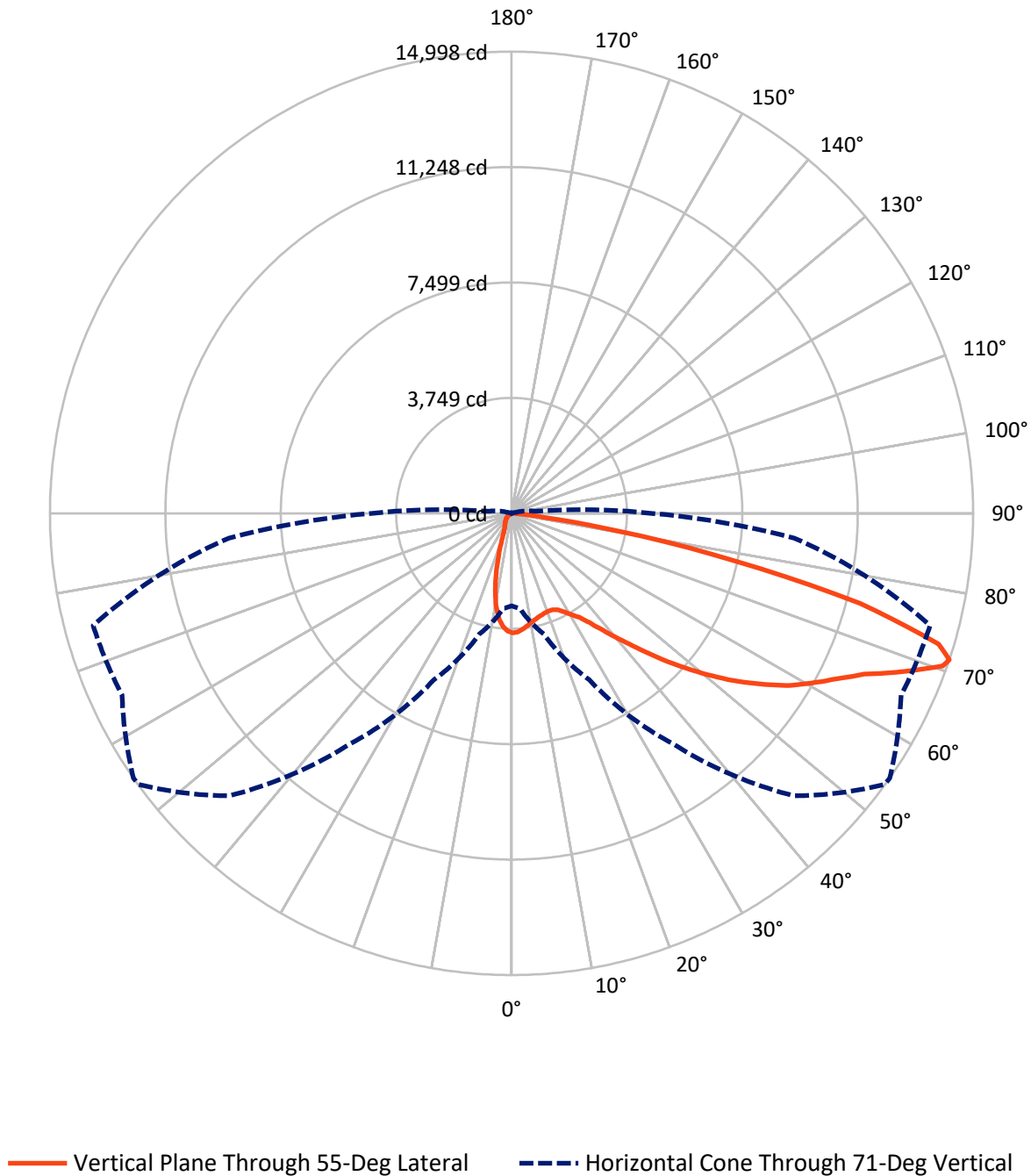
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1593.8	0.0	1593.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	18537.2	0.0	18537.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	20131.0	0.0	20131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	1.6
10°-20°	747.3	3.7
20°-30°	1200.9	6.0
30°-40°	2040.5	10.1
40°-50°	3167.1	15.7
50°-60°	4258.0	21.2
60°-70°	5209.0	25.9
70°-80°	3045.6	15.1
80°-90°	131.7	0.7
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°	20131.0	100.0
0°-180°	20131.0	100.0

Coefficient of Utilization



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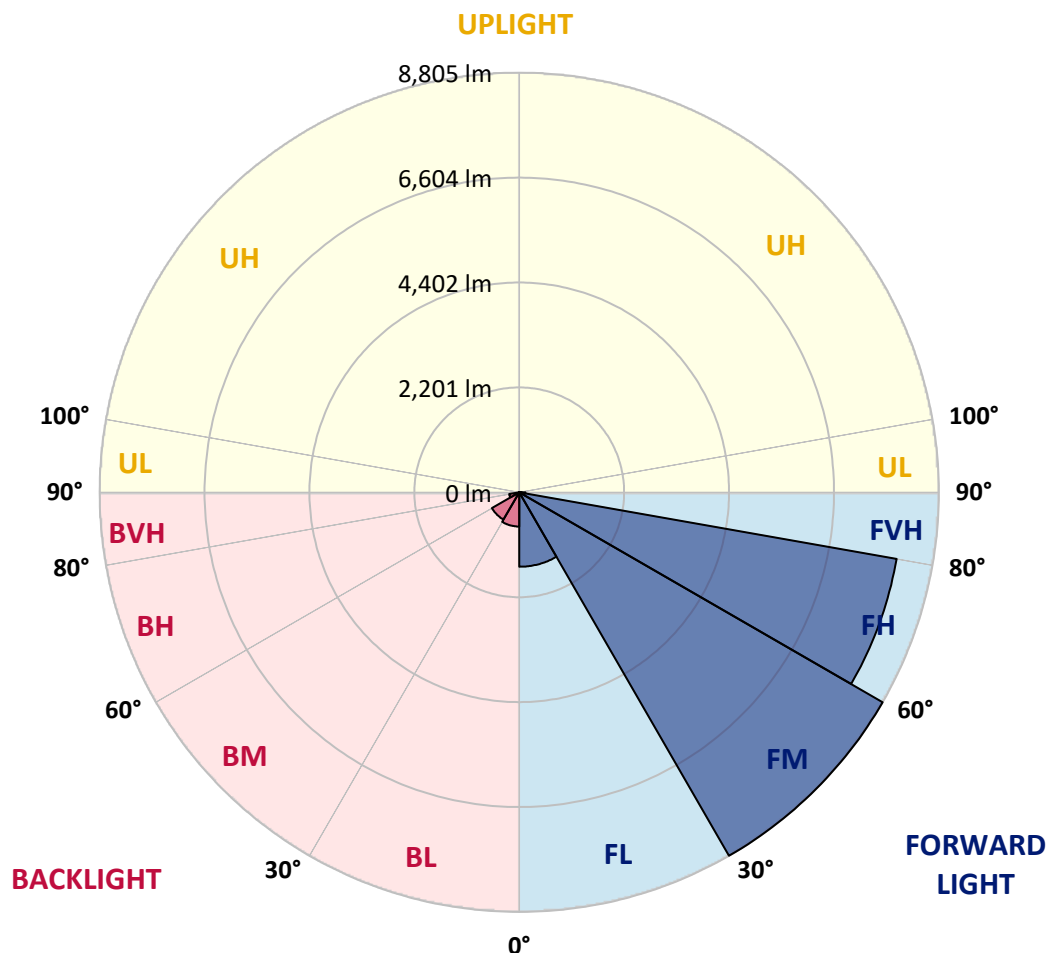
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1561.9	7.8			
FM	(30°-60°)	8804.7	43.7			
FH	(60°-80°)	8041.0	39.9			G4/12000
FVH	(80°-90°)	129.6	0.6			G2/225
BL	(0°-30°)	717.4	3.6	B2/1000		
BM	(30°-60°)	660.8	3.3	B1/1000		
BH	(60°-80°)	213.5	1.1	B1/500		G1/500
BVH	(80°-90°)	2.1	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3
2.5°	3768.4	3773.0	3789.2	3796.5	3813.6	3842.6	3857.0	3857.9	3881.4	3890.5	3897.7
5°	3501.8	3528.9	3556.0	3584.9	3637.4	3707.0	3775.7	3782.0	3857.9	3914.0	3943.8
7.5°	3272.2	3296.6	3329.1	3375.2	3449.4	3558.7	3673.5	3687.1	3830.8	3958.3	4025.2
10°	3036.3	3056.2	3103.2	3171.0	3273.1	3419.5	3574.1	3596.7	3806.4	4017.9	4135.4
12.5°	2784.1	2795.8	2852.8	2950.4	3100.4	3286.7	3490.0	3519.9	3791.0	4086.6	4265.6
15°	2592.4	2597.9	2652.1	2753.3	2925.1	3167.3	3425.0	3461.1	3794.7	4168.9	4407.5
17.5°	2543.6	2546.3	2575.3	2644.9	2796.7	3060.7	3373.4	3417.7	3805.5	4249.3	4550.3
20°	2741.6	2722.6	2692.8	2681.9	2747.0	2996.5	3342.7	3392.4	3820.0	4320.7	4678.7
22.5°	3284.8	3228.8	3105.0	2939.5	2839.2	3001.0	3350.8	3400.5	3866.1	4408.4	4826.9
25°	4091.1	4013.4	3802.8	3477.4	3164.6	3131.2	3418.6	3469.2	3955.6	4513.3	4968.8
27.5°	5008.6	4931.8	4674.2	4209.6	3676.2	3388.8	3574.1	3621.1	4088.4	4606.4	5077.3
30°	5887.2	5865.5	5561.8	5033.9	4319.8	3806.4	3774.8	3814.5	4187.0	4662.4	5163.2
32.5°	6632.1	6597.7	6353.7	5840.2	5056.5	4308.1	4010.7	4022.4	4261.1	4734.7	5275.3
35°	7322.7	7280.2	7065.9	6580.5	5812.2	4920.9	4374.1	4356.9	4422.9	4880.3	5438.0
37.5°	7925.6	7964.4	7726.7	7264.8	6490.1	5558.2	4864.0	4812.5	4676.0	5117.1	5673.9
40°	8430.0	8430.0	8306.1	7921.0	7222.3	6217.2	5418.1	5350.3	5056.5	5482.3	5973.1
42.5°	8611.6	8650.5	8696.6	8478.8	7877.7	6902.3	6035.5	5965.0	5592.6	6000.2	6350.9
45°	8622.5	8684.0	8919.9	8919.0	8469.7	7583.0	6731.5	6698.0	6279.5	6665.5	6819.2
47.5°	8469.7	8546.6	8935.2	9155.8	8938.9	8216.6	7492.6	7451.0	7086.7	7480.8	7309.1
50°	8233.8	8318.8	8770.7	9248.9	9257.9	8768.0	8294.4	8232.0	7975.3	8412.8	7815.3
52.5°	7811.7	7976.2	8623.4	9270.6	9467.7	9244.4	9057.3	9030.2	8969.6	9310.4	8218.4
55°	6908.7	7091.3	8253.7	9277.8	9662.0	9666.5	9772.3	9779.5	9901.5	10149.2	8518.5
57.5°	6482.0	6585.1	7608.3	9312.2	9950.3	10145.6	10500.8	10556.9	10745.8	10945.6	8861.1
60°	6213.5	6335.6	7290.1	9265.2	10403.2	10773.8	11176.1	11195.0	11397.5	11767.2	9324.8
62.5°	5999.3	6119.5	7089.4	9084.4	10912.1	11529.5	11835.9	11837.7	11989.6	12746.2	9851.8
65°	5470.5	5571.8	6683.6	8881.0	11248.4	12277.0	12602.4	12590.7	12714.5	13778.4	10463.8
67.5°	4705.8	4783.5	5854.7	8110.0	11121.8	12956.8	13759.5	13720.6	13570.5	14670.6	10704.2
70°	3638.3	3666.3	4614.5	6758.6	9935.9	13218.0	14877.6	14857.7	14095.7	14510.6	9822.9
71°	3007.3	3099.5	4066.7	5965.0	9141.3	12976.7	14986.1	14997.8	13963.8	14074.9	9216.4
72.5°	1746.4	1825.0	2947.7	4581.1	7761.1	11969.7	14423.8	14508.8	13347.3	12802.2	7872.2
75°	374.2	400.4	1092.8	2217.3	4269.2	8389.3	11384.9	11687.7	10878.7	8709.3	4744.7
77.5°	260.3	281.1	468.2	1006.1	1411.0	4145.4	7072.3	7414.0	6499.2	3273.1	1518.6
80°	206.1	229.6	365.2	497.2	381.5	1336.9	3312.9	3521.7	2167.6	730.4	255.8
82.5°	114.8	136.5	284.7	268.5	146.4	254.0	927.4	1048.5	433.9	147.3	60.6
85°	33.4	40.7	183.5	195.2	62.4	48.8	158.2	196.2	82.3	38.9	27.1
87.5°	0.0	0.0	88.6	75.0	18.1	7.2	14.5	16.3	16.3	16.3	18.1
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°	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3	3882.3
2.5°	3897.7	3904.0	3881.4	3851.6	3820.0	3781.1	3740.4	3708.8	3707.9	3692.5	3677.1
5°	3945.6	3942.0	3879.6	3784.7	3672.6	3556.0	3444.8	3319.2	3277.6	3226.1	3208.9
7.5°	4034.2	4008.9	3876.9	3669.0	3423.1	3179.1	2926.9	2672.9	2564.4	2466.8	2449.6
10°	4145.4	4097.5	3859.7	3495.5	3044.4	2594.2	2213.7	1868.4	1716.5	1599.9	1594.5
12.5°	4261.1	4187.9	3811.8	3233.3	2548.1	1915.4	1477.0	1137.1	1010.6	929.2	936.5
15°	4382.2	4272.8	3708.8	2879.9	1983.2	1299.8	907.5	707.8	657.1	636.4	641.8
17.5°	4506.0	4331.6	3565.1	2454.1	1425.5	838.8	628.2	572.2	572.2	576.7	578.5
20°	4613.6	4363.2	3353.5	1976.9	966.3	611.0	549.6	541.4	546.0	553.2	554.1
22.5°	4720.3	4365.0	3077.8	1493.3	676.1	535.1	523.4	519.8	522.5	530.6	531.5
25°	4807.0	4343.3	2732.5	1062.1	539.6	504.4	499.0	497.2	499.0	508.9	508.9
27.5°	4842.3	4264.7	2311.3	746.6	483.6	470.0	468.2	470.0	472.8	480.0	480.9
30°	4845.9	4127.3	1852.1	540.5	438.4	423.9	427.6	433.9	431.2	429.4	431.2
32.5°	4855.0	3968.2	1404.7	444.7	400.4	377.8	373.3	373.3	362.5	356.1	352.5
35°	4884.8	3781.1	1018.7	399.5	361.6	335.4	318.2	298.3	277.5	266.7	263.9
37.5°	4931.8	3584.9	729.5	369.7	327.2	297.4	264.8	229.6	199.8	191.6	191.6
40°	5017.7	3382.5	539.6	346.2	300.1	263.0	214.2	168.1	141.0	136.5	136.5
42.5°	5153.2	3169.1	430.3	325.4	276.6	227.8	163.6	122.0	102.1	99.4	98.5
45°	5294.3	2934.1	376.0	305.5	251.3	187.1	121.1	90.4	78.6	75.9	75.9
47.5°	5435.3	2683.7	349.8	286.5	226.9	145.5	90.4	71.4	66.0	66.0	66.9
50°	5554.6	2422.5	330.8	265.8	195.2	110.3	71.4	60.6	58.8	62.4	63.3
52.5°	5584.4	2165.8	307.3	239.5	156.4	84.1	58.8	53.3	53.3	53.3	53.3
55°	5566.3	1966.9	276.6	207.0	115.7	66.9	50.6	47.0	46.1	46.1	46.1
57.5°	5627.8	1849.4	221.5	160.9	83.2	54.2	44.3	41.6	39.8	38.9	38.9
60°	5751.6	1772.6	158.2	115.7	62.4	45.2	38.0	35.3	32.5	30.7	30.7
62.5°	5916.2	1705.7	117.5	85.9	47.9	36.2	31.6	28.9	25.3	23.5	23.5
65°	6042.7	1586.4	89.5	64.2	36.2	28.9	24.4	23.5	18.1	16.3	15.4
67.5°	5849.3	1324.2	72.3	47.0	27.1	22.6	19.0	18.1	10.8	9.0	9.0
70°	5016.8	922.0	57.9	34.3	19.9	18.1	15.4	11.8	8.1	7.2	7.2
71°	4549.4	770.1	52.4	28.9	17.2	17.2	14.5	9.9	7.2	6.3	6.3
72.5°	3779.3	546.9	44.3	22.6	15.4	18.1	15.4	9.0	7.2	6.3	5.4
75°	2193.8	228.7	30.7	15.4	11.8	21.7	19.9	8.1	5.4	4.5	4.5
77.5°	659.9	84.1	17.2	9.9	9.0	19.0	22.6	7.2	2.7	0.9	0.9
80°	120.2	36.2	10.8	6.3	6.3	11.8	17.2	3.6	0.0	0.0	0.0
82.5°	42.5	18.1	6.3	3.6	2.7	5.4	8.1	0.0	0.0	0.0	0.0
85°	24.4	12.7	3.6	1.8	0.0	0.9	1.8	0.0	0.0	0.0	0.0
87.5°	16.3	3.6	0.0	0.0	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)