

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: P324870

Luminaire Tested: **GAN-SA6A-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22817 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

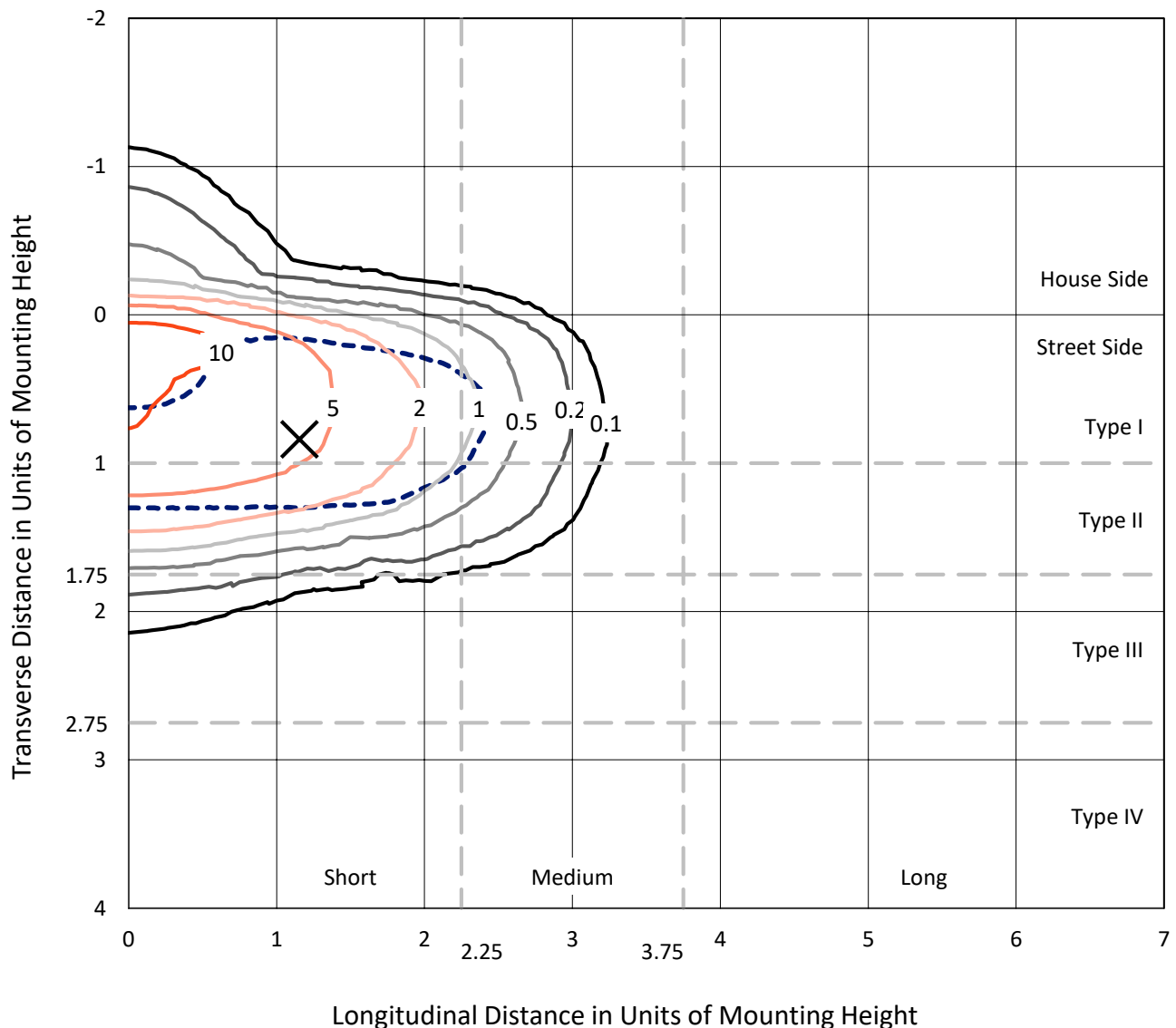
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

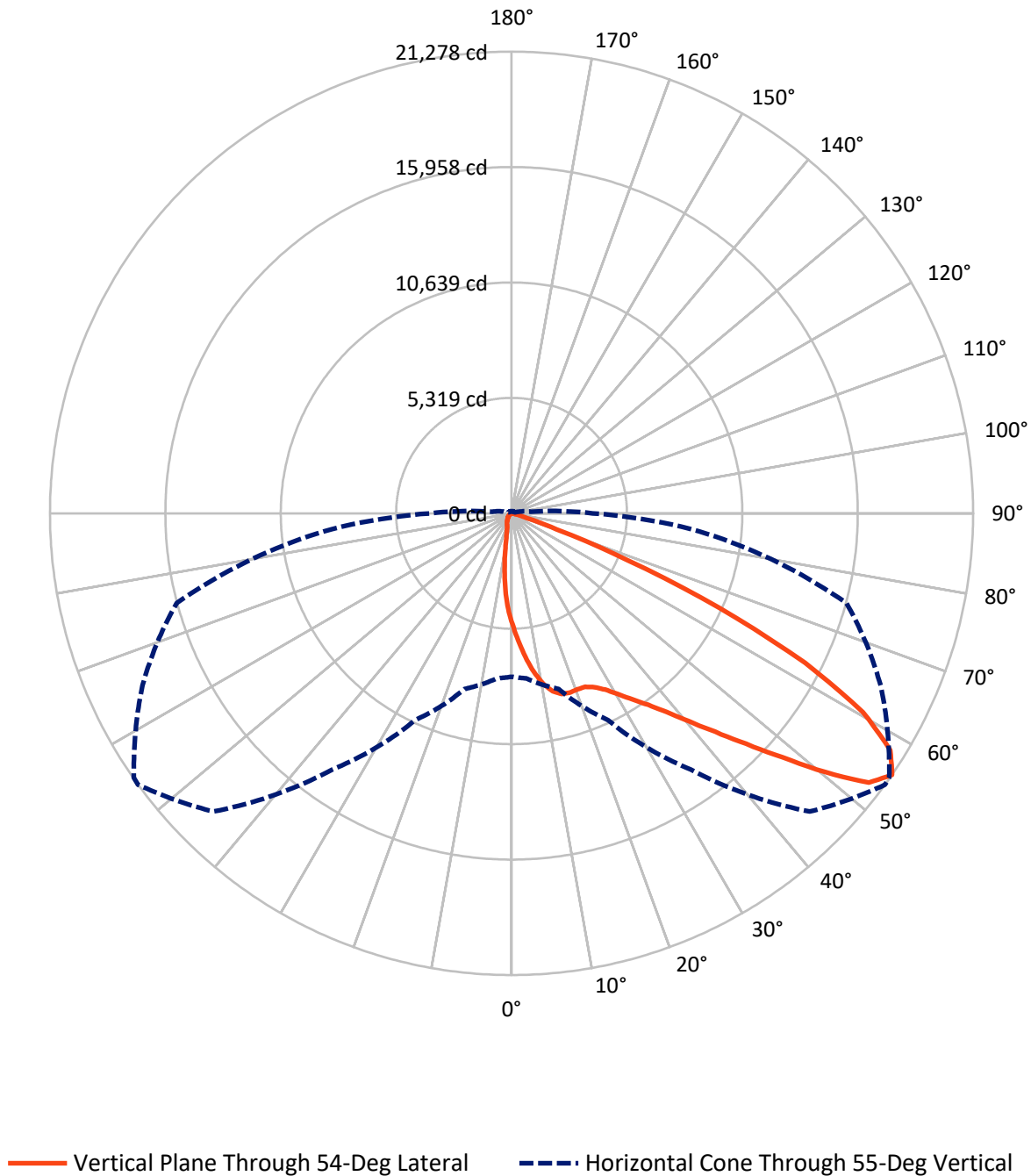
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.4	0.0	1138.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21678.6	0.0	21678.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	22817.0	0.0	22817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.6	2.1
10°-20°	1290.6	5.7
20°-30°	2203.5	9.7
30°-40°	3536.2	15.5
40°-50°	5650.8	24.8
50°-60°	6055.0	26.5
60°-70°	3108.8	13.6
70°-80°	470.9	2.1
80°-90°	30.7	0.1
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°	22817.0	100.0
0°-180°	22817.0	100.0

Coefficient of Utilization



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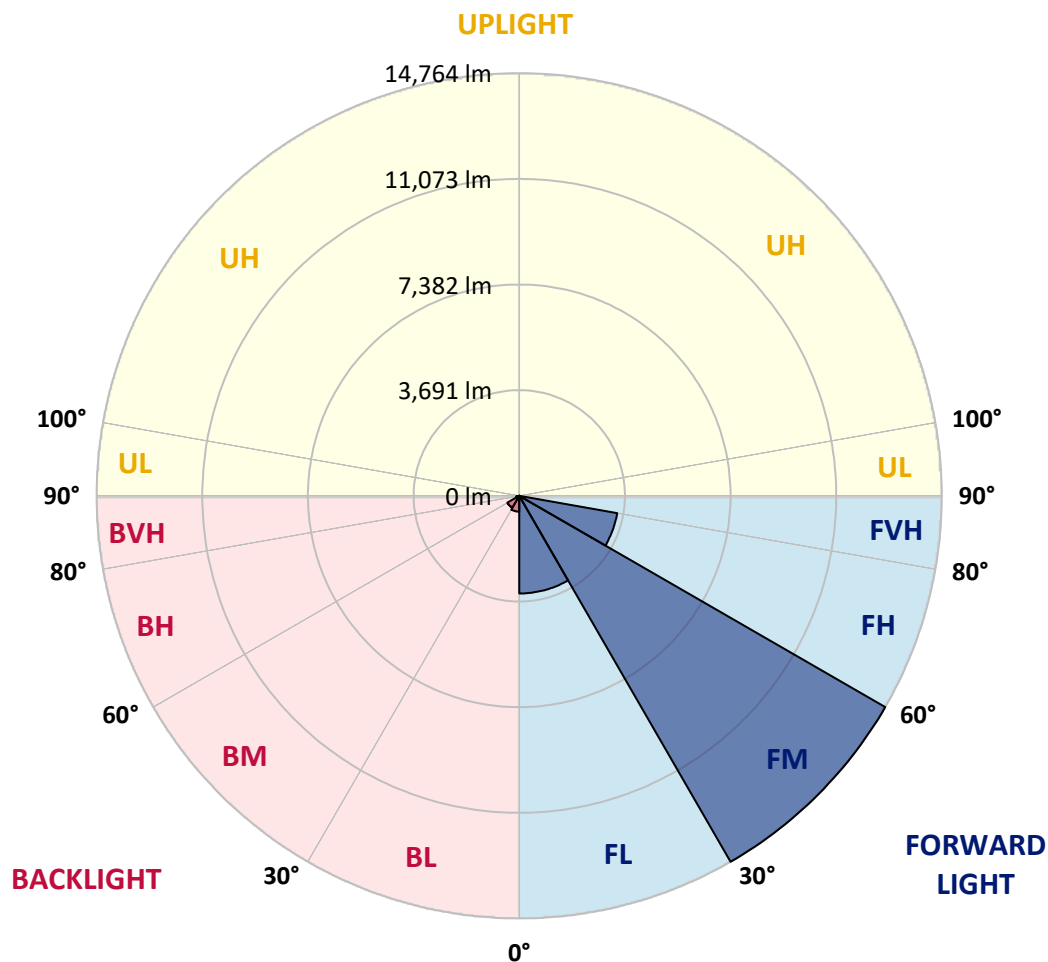
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3410.7	14.9			
FM	(30°-60°)	14763.6	64.7			
FH	(60°-80°)	3474.8	15.2			G2/5000
FVH	(80°-90°)	29.4	0.1			G1/100
BL	(0°-30°)	553.9	2.4	B2/1000		
BM	(30°-60°)	478.4	2.1	B1/1000		
BH	(60°-80°)	104.9	0.5	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1
2.5°	6412.7	6317.2	6320.1	6276.8	6118.1	5994.0	5864.9	5834.3	5633.3	5422.5	5219.5
5°	7521.3	7451.3	7434.6	7350.8	7130.1	6896.6	6646.3	6588.1	6195.0	5763.4	5338.7
7.5°	8090.8	8091.8	8078.0	8047.5	7909.5	7682.9	7377.4	7316.3	6781.3	6133.9	5462.9
10°	7925.3	7962.7	8039.6	8141.1	8246.5	8217.9	7988.3	7933.2	7351.8	6526.1	5600.8
12.5°	7539.0	7543.9	7629.7	7796.2	8099.7	8411.1	8415.0	8396.3	7896.7	6936.0	5752.5
15°	7346.9	7365.6	7397.1	7504.5	7792.3	8290.8	8647.5	8674.2	8396.3	7371.5	5914.1
17.5°	7473.0	7499.6	7473.0	7485.8	7652.3	8100.7	8687.9	8755.9	8832.8	7802.1	6066.9
20°	7814.9	7839.5	7792.3	7740.0	7772.5	8045.5	8659.4	8751.0	9174.7	8184.4	6195.0
22.5°	8276.1	8285.9	8214.0	8128.3	8104.6	8232.7	8683.0	8777.6	9448.6	8530.3	6275.8
25°	8783.5	8792.4	8702.7	8604.2	8548.0	8600.2	8877.1	8948.1	9690.1	8860.4	6322.1
27.5°	9336.3	9344.2	9231.9	9110.7	9045.6	9047.6	9197.4	9273.3	9947.2	9236.8	6359.5
30°	9920.6	9916.7	9813.2	9644.7	9562.0	9560.0	9658.5	9735.4	10319.7	9719.6	6410.8
32.5°	10576.9	10569.0	10422.2	10213.3	10119.7	10133.5	10221.2	10265.5	10781.8	10234.0	6502.4
35°	11441.0	11418.4	11196.7	10937.5	10765.1	10760.2	10834.1	10869.5	11371.1	10856.7	6655.1
37.5°	12562.4	12541.7	12241.2	11864.8	11622.4	11531.7	11619.4	11664.7	12211.6	11655.9	6900.5
40°	13668.0	13647.3	13468.9	13124.0	12750.6	12532.8	12601.8	12650.1	13261.0	12625.5	7209.9
42.5°	14430.6	14448.4	14510.5	14539.0	14189.2	13732.0	13763.5	13813.8	14363.6	13662.1	7563.6
45°	14631.7	14670.1	15020.9	15709.6	15840.7	15484.0	15153.9	15181.5	15484.0	14698.7	7917.4
47.5°	14027.6	14098.6	14775.5	16056.5	17166.0	17418.3	16793.5	16757.1	16559.0	15537.2	8168.7
50°	12655.0	12720.1	13597.0	15491.9	17568.0	19264.8	18758.4	18650.9	17502.0	16038.8	8257.3
52.5°	10668.5	10747.4	11459.8	13714.3	16810.3	20088.6	20618.7	20529.1	18193.7	16078.2	8272.1
55°	7534.1	7629.7	8383.5	10510.9	14409.0	19433.3	21277.9	21251.3	18768.2	15973.7	8303.7
57.5°	4234.1	4303.1	5116.0	6737.9	10553.2	16926.6	20589.2	20765.5	19115.1	15792.4	8351.0
60°	1880.1	1898.8	2319.5	3354.2	6178.2	12935.8	18617.4	18915.0	18817.5	15550.0	8430.8
62.5°	1042.5	1026.7	1026.7	1394.3	2685.1	8008.0	15181.5	15673.2	17547.3	15263.3	8434.7
65°	816.9	802.1	759.7	765.6	1022.8	3554.2	10512.8	11386.9	15135.2	14422.8	8150.9
67.5°	692.7	679.9	637.5	620.8	635.6	1172.6	5776.2	6683.7	11484.4	12238.2	7060.1
70°	585.3	576.4	554.8	534.1	496.6	579.4	2210.2	2827.0	7076.9	8141.1	4819.4
72.5°	471.0	467.1	474.9	457.2	411.9	386.3	755.8	915.4	3178.8	3633.0	1985.5
75°	406.0	404.0	407.9	390.2	339.0	269.0	384.3	419.8	896.7	888.8	402.0
77.5°	264.1	267.0	338.0	330.1	291.7	179.3	199.0	214.8	272.0	204.0	122.2
80°	168.5	166.5	171.5	273.9	262.1	137.0	99.5	104.4	131.1	100.5	59.1
82.5°	102.5	100.5	112.3	128.1	132.0	95.6	61.1	62.1	81.8	65.0	31.5
85°	8.9	11.8	68.0	63.1	45.3	29.6	29.6	31.5	43.4	38.4	17.7
87.5°	0.0	0.0	11.8	17.7	9.9	10.8	10.8	11.8	16.8	16.8	8.9
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°	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1	5110.1
2.5°	5114.0	5011.6	4804.6	4605.6	4437.1	4274.5	4089.3	3906.0	3820.3	3785.8	3750.3
5°	5122.9	4912.0	4485.4	4055.8	3610.4	3209.3	2867.4	2516.6	2341.2	2264.4	2228.9
7.5°	5134.7	4813.5	4123.7	3402.5	2685.1	2141.2	1666.2	1360.8	1228.7	1208.1	1156.8
10°	5136.7	4694.3	3704.0	2681.2	1800.3	1290.8	993.2	835.6	777.5	767.6	750.8
12.5°	5140.6	4553.4	3237.9	1985.5	1200.2	863.2	718.3	666.1	650.3	649.4	649.4
15°	5152.5	4405.6	2754.1	1430.7	862.2	683.8	630.6	609.9	604.0	607.0	606.0
17.5°	5152.5	4231.1	2279.1	1066.2	696.7	614.9	585.3	571.5	569.5	572.5	573.5
20°	5115.0	4019.3	1843.6	829.7	617.8	570.5	543.9	531.1	526.2	528.2	529.1
22.5°	5025.4	3759.2	1488.9	686.8	565.6	530.1	501.5	481.8	474.0	474.9	474.9
25°	4885.4	3450.7	1164.7	594.2	523.2	486.8	453.3	430.6	425.7	424.7	426.7
27.5°	4706.1	3109.8	927.2	523.2	473.0	438.5	405.0	386.3	382.3	383.3	384.3
30°	4529.7	2756.1	731.1	463.1	416.8	384.3	358.7	349.8	349.8	352.8	353.7
32.5°	4368.1	2416.1	578.4	410.9	366.6	337.0	322.2	321.2	326.2	328.1	329.1
35°	4229.2	2101.8	478.9	370.5	327.1	301.5	296.6	300.5	306.4	310.4	311.4
37.5°	4130.6	1821.0	418.8	337.0	296.6	275.9	274.9	282.8	290.7	299.6	301.5
40°	4089.3	1583.5	377.4	307.4	272.0	256.2	253.2	264.1	278.9	291.7	293.6
42.5°	4054.8	1389.4	341.9	278.9	252.3	229.6	228.6	242.4	260.1	272.9	275.9
45°	4025.2	1233.7	309.4	248.3	226.6	197.1	200.0	217.8	231.6	245.4	248.3
47.5°	3964.1	1105.6	273.9	215.8	187.2	168.5	174.4	190.2	201.0	221.7	224.7
50°	3854.7	1001.1	237.5	176.4	152.7	145.8	154.7	165.5	179.3	197.1	199.0
52.5°	3780.8	922.3	205.9	147.8	126.1	128.1	137.0	140.9	148.8	155.7	153.7
55°	3738.5	878.9	180.3	128.1	107.4	113.3	115.3	110.4	106.4	99.5	96.6
57.5°	3733.5	839.5	160.6	111.3	94.6	97.6	90.7	73.9	60.1	52.2	50.3
60°	3725.7	791.2	144.8	93.6	83.8	79.8	65.0	40.4	28.6	26.6	26.6
62.5°	3639.9	716.4	133.0	78.8	70.9	60.1	37.4	18.7	15.8	16.8	16.8
65°	3367.0	611.9	121.2	64.0	56.2	43.4	18.7	10.8	5.9	6.9	6.9
67.5°	2862.5	487.8	108.4	49.3	42.4	27.6	10.8	4.9	0.0	0.0	0.0
70°	1916.5	302.5	91.6	34.5	27.6	16.8	7.9	1.0	0.0	0.0	0.0
72.5°	735.1	163.6	73.9	20.7	17.7	11.8	4.9	0.0	0.0	0.0	0.0
75°	165.5	107.4	51.2	14.8	12.8	7.9	2.0	0.0	0.0	0.0	0.0
77.5°	63.1	77.8	29.6	9.9	8.9	4.9	0.0	0.0	0.0	0.0	0.0
80°	30.5	46.3	13.8	5.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.8	17.7	5.9	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	8.9	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	3.0	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)