

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: P324876

Luminaire Tested: **GAN-SA2B-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324876
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-SA2B-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA 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: 9571 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

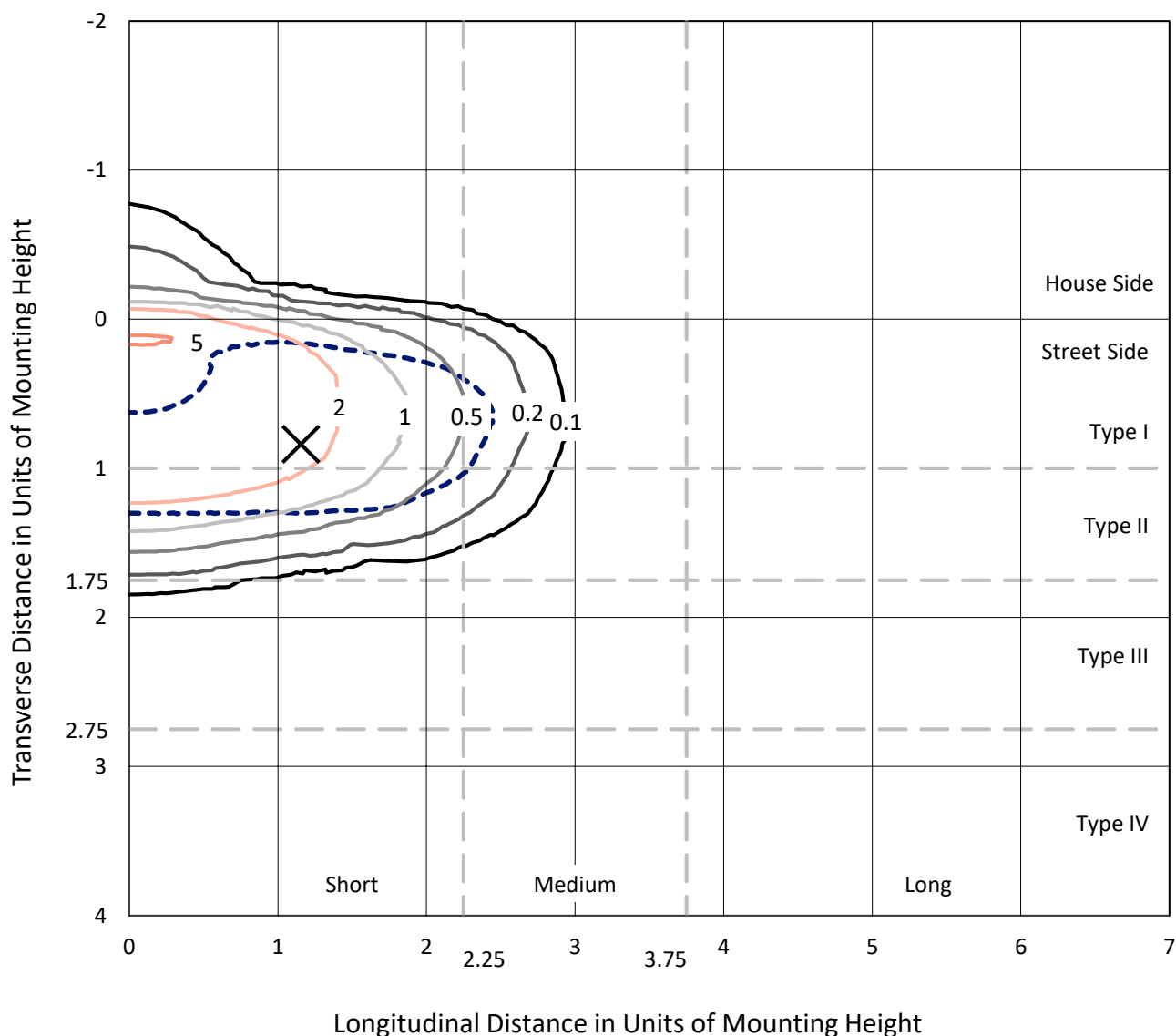
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

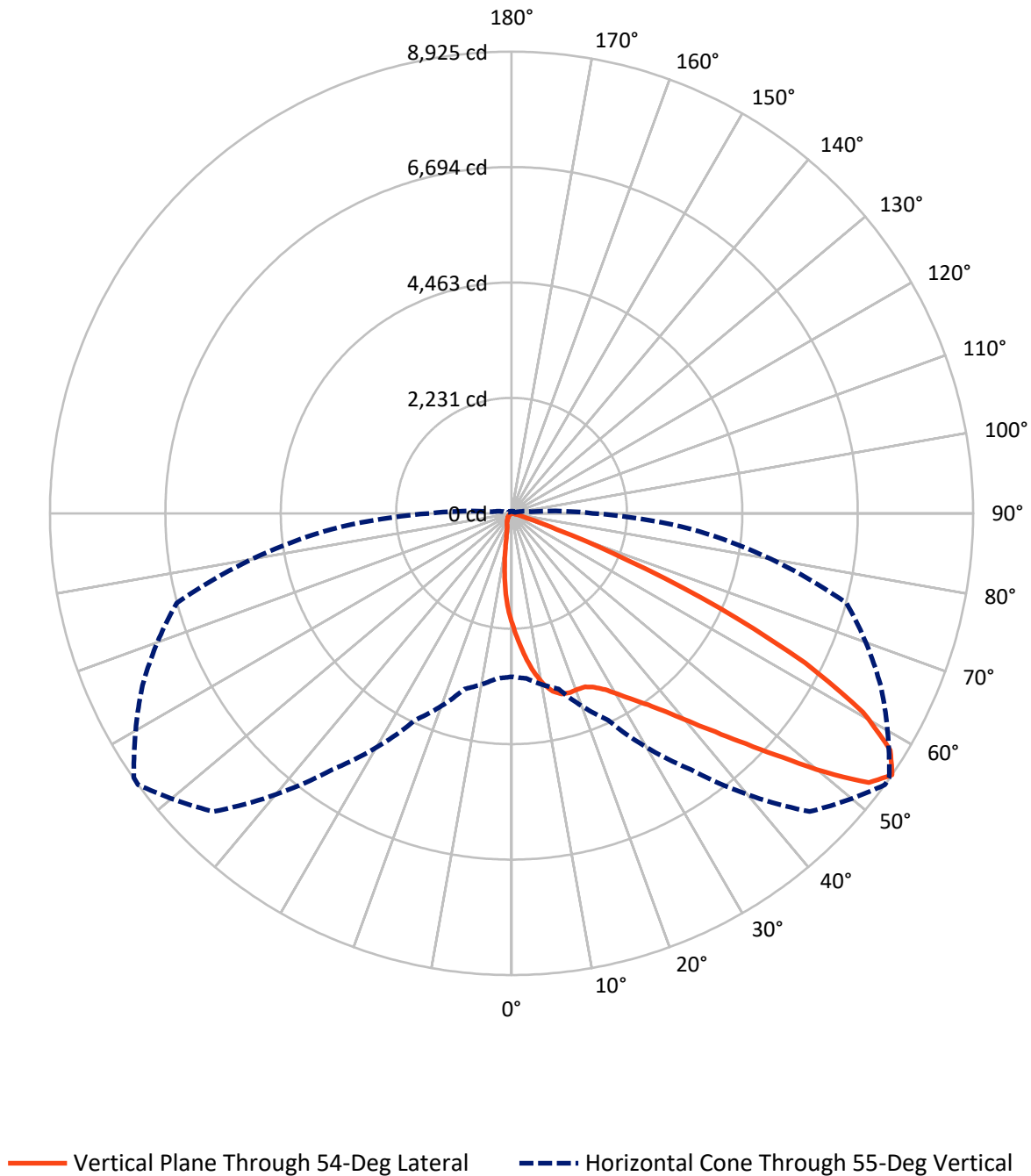
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	477.5	0.0	477.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9093.5	0.0	9093.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	9571.0	0.0	9571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	2.1
10°-20°	541.4	5.7
20°-30°	924.3	9.7
30°-40°	1483.3	15.5
40°-50°	2370.3	24.8
50°-60°	2539.9	26.5
60°-70°	1304.1	13.6
70°-80°	197.5	2.1
80°-90°	12.9	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°	9571.0	100.0
0°-180°	9571.0	100.0

Coefficient of Utilization



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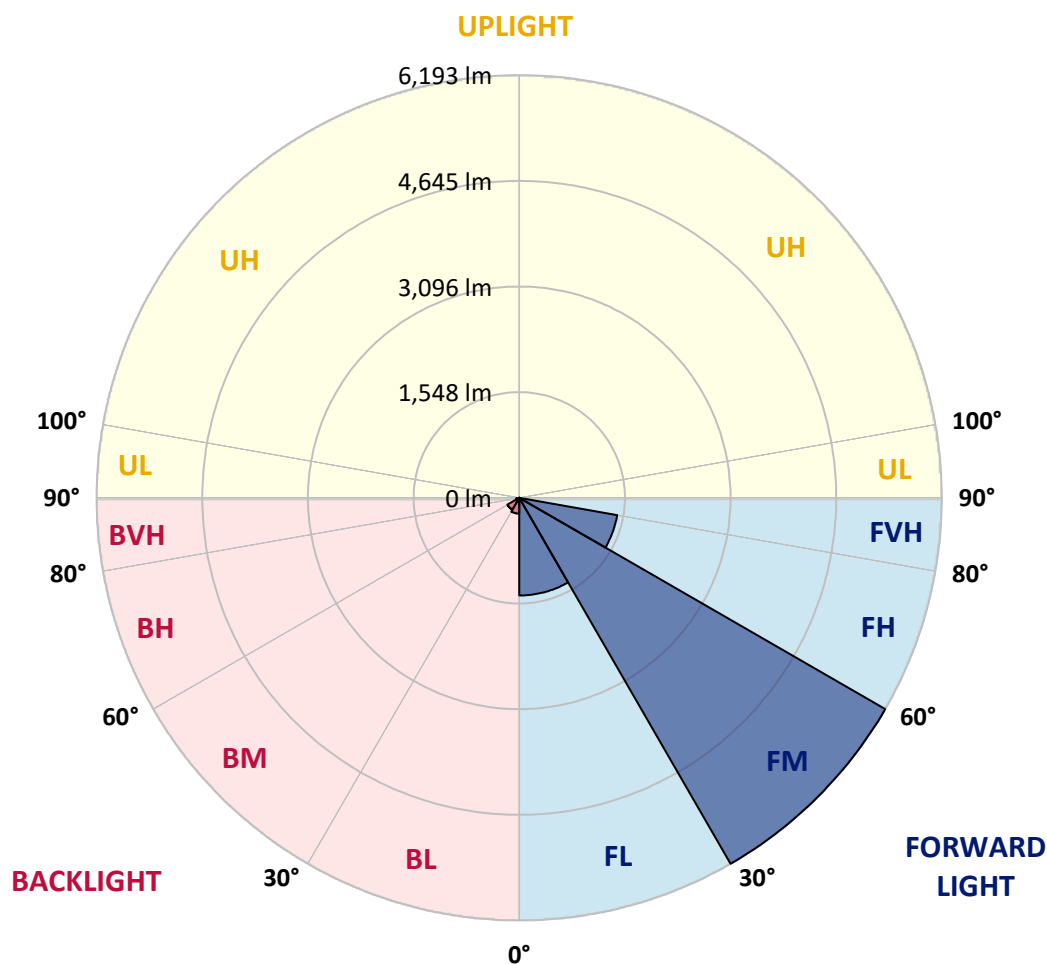
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1430.7	14.9			
FM	(30°-60°)	6192.9	64.7			
FH	(60°-80°)	1457.6	15.2			G1/1800
FVH	(80°-90°)	12.3	0.1			G1/100
BL	(0°-30°)	232.3	2.4	B1/500		
BM	(30°-60°)	200.7	2.1	B0/220		
BH	(60°-80°)	44.0	0.5	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5
2.5°	2689.9	2649.8	2651.1	2632.9	2566.4	2514.3	2460.1	2447.3	2363.0	2274.5	2189.4
5°	3154.9	3125.6	3118.6	3083.4	2990.8	2892.9	2787.9	2763.5	2598.6	2417.6	2239.4
7.5°	3393.8	3394.3	3388.5	3375.7	3317.8	3222.7	3094.6	3069.0	2844.5	2573.0	2291.5
10°	3324.4	3340.1	3372.3	3414.9	3459.1	3447.2	3350.9	3327.7	3083.8	2737.5	2349.4
12.5°	3162.4	3164.4	3200.4	3270.3	3397.6	3528.2	3529.8	3522.0	3312.4	2909.4	2413.0
15°	3081.8	3089.6	3102.9	3147.9	3268.6	3477.7	3627.4	3638.5	3522.0	3092.1	2480.8
17.5°	3134.7	3145.8	3134.7	3140.1	3209.9	3398.0	3644.3	3672.8	3705.1	3272.7	2544.9
20°	3278.1	3288.4	3268.6	3246.7	3260.3	3374.8	3632.3	3670.8	3848.5	3433.1	2598.6
22.5°	3471.5	3475.7	3445.5	3409.5	3399.6	3453.4	3642.2	3681.9	3963.4	3578.2	2632.5
25°	3684.4	3688.1	3650.5	3609.2	3585.6	3607.5	3723.7	3753.4	4064.7	3716.6	2651.9
27.5°	3916.3	3919.6	3872.5	3821.6	3794.4	3795.2	3858.0	3889.8	4172.5	3874.5	2667.6
30°	4161.4	4159.7	4116.3	4045.7	4010.9	4010.1	4051.4	4083.7	4328.8	4077.1	2689.1
32.5°	4436.7	4433.4	4371.8	4284.1	4244.9	4250.7	4287.5	4306.1	4522.6	4292.8	2727.6
35°	4799.2	4789.6	4696.6	4587.9	4515.6	4513.5	4544.5	4559.4	4769.8	4554.0	2791.6
37.5°	5269.5	5260.8	5134.8	4976.9	4875.2	4837.2	4874.0	4893.0	5122.4	4889.3	2894.5
40°	5733.3	5724.6	5649.8	5505.1	5348.5	5257.1	5286.1	5306.3	5562.6	5296.0	3024.3
42.5°	6053.2	6060.6	6086.7	6098.7	5951.9	5760.1	5773.4	5794.4	6025.1	5730.8	3172.7
45°	6137.5	6153.6	6300.8	6589.7	6644.7	6495.0	6356.6	6368.1	6495.0	6165.6	3321.1
47.5°	5884.1	5913.9	6197.9	6735.2	7200.6	7306.4	7044.4	7029.1	6946.0	6517.4	3426.5
50°	5308.4	5335.7	5703.5	6498.3	7369.2	8081.0	7868.5	7823.5	7341.5	6727.7	3463.7
52.5°	4475.1	4508.2	4807.0	5752.7	7051.4	8426.5	8648.9	8611.3	7631.7	6744.3	3469.9
55°	3160.3	3200.4	3516.6	4409.0	6044.1	8151.7	8925.4	8914.2	7872.7	6700.5	3483.1
57.5°	1776.1	1805.0	2146.0	2826.3	4426.7	7100.2	8636.5	8710.5	8018.2	6624.4	3503.0
60°	788.6	796.5	973.0	1407.0	2591.6	5426.2	7809.4	7934.2	7893.3	6522.7	3536.4
62.5°	437.3	430.7	430.7	584.9	1126.3	3359.1	6368.1	6574.4	7360.5	6402.5	3538.1
65°	342.6	336.4	318.7	321.2	429.0	1490.9	4409.8	4776.4	6348.7	6049.9	3419.1
67.5°	290.6	285.2	267.4	260.4	266.6	491.9	2422.9	2803.6	4817.3	5133.5	2961.5
70°	245.5	241.8	232.7	224.0	208.3	243.0	927.1	1185.8	2968.5	3414.9	2021.6
72.5°	197.6	195.9	199.2	191.8	172.8	162.0	317.0	384.0	1333.4	1523.9	832.9
75°	170.3	169.5	171.1	163.7	142.2	112.8	161.2	176.1	376.1	372.8	168.6
77.5°	110.8	112.0	141.8	138.5	122.3	75.2	83.5	90.1	114.1	85.6	51.3
80°	70.7	69.9	71.9	114.9	109.9	57.5	41.7	43.8	55.0	42.2	24.8
82.5°	43.0	42.2	47.1	53.7	55.4	40.1	25.6	26.0	34.3	27.3	13.2
85°	3.7	5.0	28.5	26.5	19.0	12.4	12.4	13.2	18.2	16.1	7.4
87.5°	0.0	0.0	5.0	7.4	4.1	4.5	4.5	5.0	7.0	7.0	3.7
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°	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5
2.5°	2145.2	2102.2	2015.4	1931.9	1861.2	1793.0	1715.3	1638.4	1602.5	1588.0	1573.1
5°	2148.9	2060.4	1881.5	1701.3	1514.4	1346.2	1202.8	1055.6	982.1	949.8	934.9
7.5°	2153.9	2019.1	1729.8	1427.2	1126.3	898.2	698.9	570.8	515.4	506.7	485.2
10°	2154.7	1969.1	1553.7	1124.7	755.2	541.5	416.6	350.5	326.1	322.0	315.0
12.5°	2156.3	1910.0	1358.2	832.9	503.4	362.1	301.3	279.4	272.8	272.4	272.4
15°	2161.3	1848.0	1155.3	600.2	361.7	286.8	264.5	255.9	253.4	254.6	254.2
17.5°	2161.3	1774.8	956.0	447.2	292.2	257.9	245.5	239.7	238.9	240.1	240.6
20°	2145.6	1686.0	773.3	348.0	259.2	239.3	228.2	222.8	220.7	221.5	222.0
22.5°	2108.0	1576.8	624.5	288.1	237.3	222.4	210.4	202.1	198.8	199.2	199.2
25°	2049.3	1447.5	488.6	249.2	219.5	204.2	190.1	180.6	178.6	178.1	179.0
27.5°	1974.1	1304.5	388.9	219.5	198.4	183.9	169.9	162.0	160.4	160.8	161.2
30°	1900.1	1156.1	306.7	194.3	174.8	161.2	150.5	146.7	146.7	148.0	148.4
32.5°	1832.3	1013.5	242.6	172.4	153.8	141.4	135.2	134.7	136.8	137.6	138.1
35°	1774.0	881.6	200.9	155.4	137.2	126.5	124.4	126.1	128.5	130.2	130.6
37.5°	1732.7	763.8	175.7	141.4	124.4	115.7	115.3	118.6	121.9	125.7	126.5
40°	1715.3	664.2	158.3	129.0	114.1	107.5	106.2	110.8	117.0	122.3	123.2
42.5°	1700.8	582.8	143.4	117.0	105.8	96.3	95.9	101.7	109.1	114.5	115.7
45°	1688.4	517.5	129.8	104.2	95.1	82.7	83.9	91.3	97.1	102.9	104.2
47.5°	1662.8	463.8	114.9	90.5	78.5	70.7	73.2	79.8	84.3	93.0	94.2
50°	1616.9	419.9	99.6	74.0	64.1	61.2	64.9	69.4	75.2	82.7	83.5
52.5°	1585.9	386.9	86.4	62.0	52.9	53.7	57.5	59.1	62.4	65.3	64.5
55°	1568.2	368.7	75.6	53.7	45.1	47.5	48.4	46.3	44.6	41.7	40.5
57.5°	1566.1	352.2	67.4	46.7	39.7	40.9	38.0	31.0	25.2	21.9	21.1
60°	1562.8	331.9	60.8	39.3	35.1	33.5	27.3	16.9	12.0	11.2	11.2
62.5°	1526.8	300.5	55.8	33.1	29.8	25.2	15.7	7.9	6.6	7.0	7.0
65°	1412.3	256.7	50.8	26.9	23.6	18.2	7.9	4.5	2.5	2.9	2.9
67.5°	1200.7	204.6	45.5	20.7	17.8	11.6	4.5	2.1	0.0	0.0	0.0
70°	803.9	126.9	38.4	14.5	11.6	7.0	3.3	0.4	0.0	0.0	0.0
72.5°	308.3	68.6	31.0	8.7	7.4	5.0	2.1	0.0	0.0	0.0	0.0
75°	69.4	45.1	21.5	6.2	5.4	3.3	0.8	0.0	0.0	0.0	0.0
77.5°	26.5	32.7	12.4	4.1	3.7	2.1	0.0	0.0	0.0	0.0	0.0
80°	12.8	19.4	5.8	2.5	2.1	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	7.4	2.5	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	3.7	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.2	0.4	0.4	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)