

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: P324796

Luminaire Tested: **GAN-SA2B-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324796
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-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 9572 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

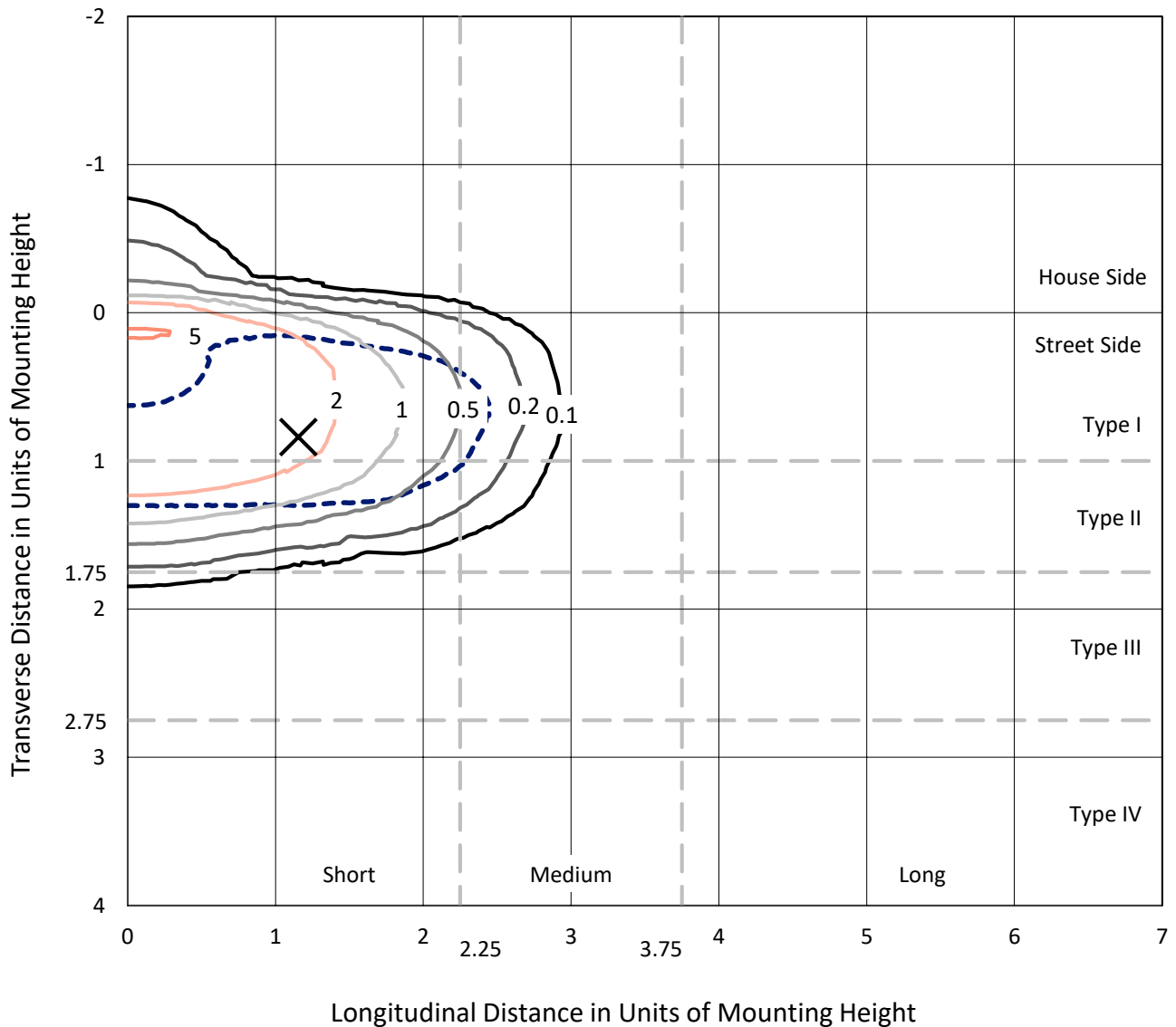
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

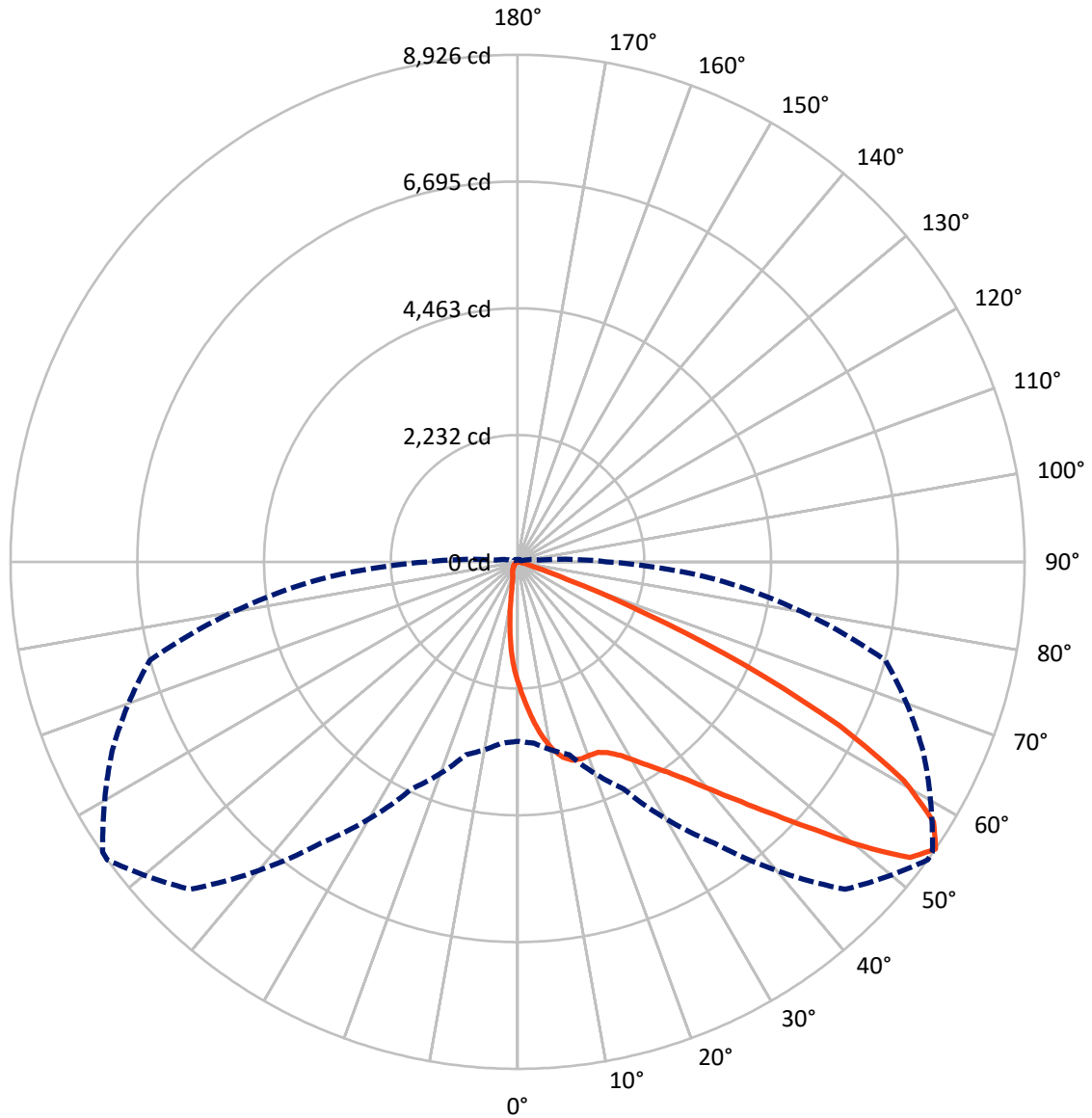
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	477.6	0.0	477.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9094.4	0.0	9094.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	9572.0	0.0	9572.0
	% 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°	924.4	9.7
30°-40°	1483.5	15.5
40°-50°	2370.6	24.8
50°-60°	2540.1	26.5
60°-70°	1304.2	13.6
70°-80°	197.6	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°	9572.0	100.0
0°-180°	9572.0	100.0

Coefficient of Utilization



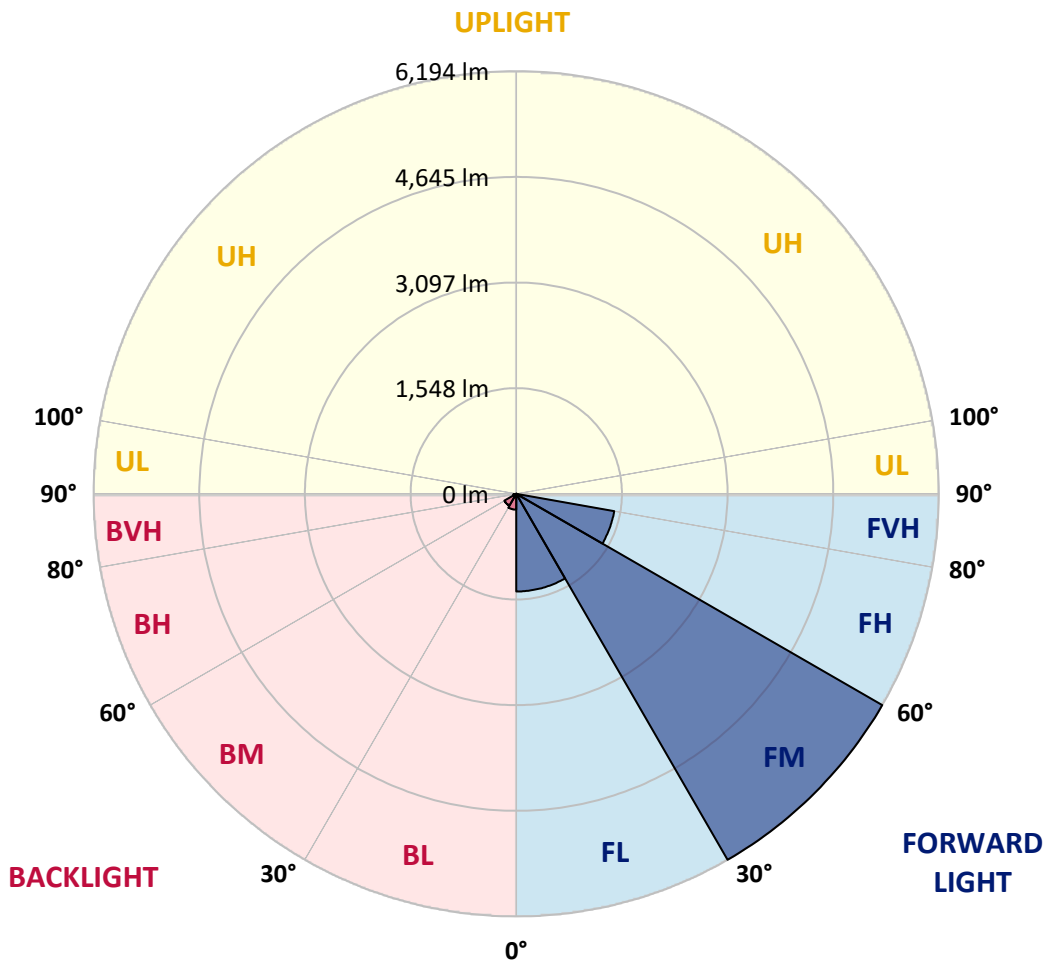
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.8	14.9			
FM (30°-60°)	6193.5	64.7			
FH (60°-80°)	1457.7	15.2			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	232.4	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°	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7
2.5°	2690.2	2650.1	2651.4	2633.2	2566.6	2514.5	2460.4	2447.6	2363.2	2274.8	2189.6
5°	3155.3	3125.9	3118.9	3083.8	2991.2	2893.2	2788.2	2763.8	2598.9	2417.8	2239.6
7.5°	3394.2	3394.6	3388.8	3376.0	3318.1	3223.1	3094.9	3069.3	2844.8	2573.2	2291.7
10°	3324.7	3340.5	3372.7	3415.3	3459.5	3447.5	3351.2	3328.1	3084.2	2737.8	2349.6
12.5°	3162.7	3164.8	3200.7	3270.6	3397.9	3528.5	3530.2	3522.3	3312.8	2909.7	2413.3
15°	3082.1	3090.0	3103.2	3148.2	3268.9	3478.1	3627.7	3638.9	3522.3	3092.4	2481.1
17.5°	3135.0	3146.2	3135.0	3140.4	3210.2	3398.3	3644.7	3673.2	3705.5	3273.1	2545.1
20°	3278.4	3288.8	3268.9	3247.0	3260.7	3375.2	3632.7	3671.2	3848.9	3433.5	2598.9
22.5°	3471.9	3476.0	3445.9	3409.9	3400.0	3453.7	3642.6	3682.3	3963.8	3578.6	2632.8
25°	3684.8	3688.5	3650.9	3609.6	3586.0	3607.9	3724.1	3753.8	4065.1	3717.0	2652.2
27.5°	3916.7	3920.0	3872.9	3822.0	3794.7	3795.6	3858.4	3890.2	4173.0	3874.9	2667.9
30°	4161.8	4160.2	4116.8	4046.1	4011.4	4010.5	4051.9	4084.1	4329.2	4077.5	2689.4
32.5°	4437.1	4433.8	4372.2	4284.6	4245.3	4251.1	4287.9	4306.5	4523.1	4293.3	2727.8
35°	4799.7	4790.1	4697.1	4588.4	4516.1	4514.0	4545.0	4559.9	4770.3	4554.5	2791.9
37.5°	5270.1	5261.4	5135.3	4977.4	4875.7	4837.7	4874.5	4893.5	5122.9	4889.8	2894.8
40°	5733.9	5725.2	5650.4	5505.7	5349.0	5257.7	5286.6	5306.9	5563.2	5296.5	3024.6
42.5°	6053.8	6061.3	6087.3	6099.3	5952.5	5760.7	5774.0	5795.1	6025.7	5731.4	3173.0
45°	6138.2	6154.3	6301.4	6590.4	6645.4	6495.7	6357.2	6368.8	6495.7	6166.3	3321.4
47.5°	5884.8	5914.5	6198.5	6735.9	7201.3	7307.2	7045.1	7029.8	6946.7	6518.0	3426.8
50°	5308.9	5336.2	5704.1	6499.0	7370.0	8081.8	7869.4	7824.3	7342.3	6728.4	3464.1
52.5°	4475.6	4508.6	4807.5	5753.3	7052.1	8427.4	8649.8	8612.2	7632.5	6745.0	3470.3
55°	3160.6	3200.7	3517.0	4409.4	6044.7	8152.5	8926.3	8915.2	7873.5	6701.2	3483.5
57.5°	1776.3	1805.2	2146.2	2826.6	4427.2	7100.9	8637.4	8711.4	8019.0	6625.1	3503.3
60°	788.7	796.6	973.1	1407.1	2591.8	5426.7	7810.2	7935.1	7894.2	6523.4	3536.8
62.5°	437.3	430.7	430.7	584.9	1126.4	3359.5	6368.8	6575.1	7361.3	6403.1	3538.5
65°	342.7	336.5	318.7	321.2	429.1	1491.0	4410.3	4776.9	6349.4	6050.5	3419.4
67.5°	290.6	285.2	267.5	260.4	266.6	491.9	2423.2	2803.9	4817.8	5134.1	2961.8
70°	245.5	241.8	232.7	224.0	208.3	243.1	927.2	1186.0	2968.8	3415.3	2021.8
72.5°	197.6	195.9	199.2	191.8	172.8	162.0	317.1	384.0	1333.5	1524.1	832.9
75°	170.3	169.5	171.1	163.7	142.2	112.9	161.2	176.1	376.2	372.9	168.7
77.5°	110.8	112.0	141.8	138.5	122.4	75.2	83.5	90.1	114.1	85.6	51.3
80°	70.7	69.9	71.9	114.9	110.0	57.5	41.8	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°	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7	2143.7
2.5°	2145.4	2102.4	2015.6	1932.1	1861.4	1793.2	1715.5	1638.6	1602.6	1588.2	1573.3
5°	2149.1	2060.7	1881.7	1701.4	1514.6	1346.4	1202.9	1055.8	982.2	949.9	935.0
7.5°	2154.1	2019.3	1730.0	1427.4	1126.4	898.3	699.0	570.9	515.5	506.8	485.3
10°	2154.9	1969.3	1553.9	1124.8	755.2	541.5	416.7	350.5	326.1	322.0	315.0
12.5°	2156.6	1910.2	1358.3	832.9	503.5	362.1	301.3	279.4	272.8	272.4	272.4
15°	2161.5	1848.2	1155.4	600.2	361.7	286.9	264.6	255.9	253.4	254.6	254.2
17.5°	2161.5	1775.0	956.1	447.3	292.3	257.9	245.5	239.8	238.9	240.2	240.6
20°	2145.8	1686.1	773.4	348.1	259.2	239.3	228.2	222.8	220.7	221.6	222.0
22.5°	2108.2	1577.0	624.6	288.1	237.3	222.4	210.4	202.1	198.8	199.2	199.2
25°	2049.5	1447.6	488.6	249.3	219.5	204.2	190.2	180.6	178.6	178.2	179.0
27.5°	1974.3	1304.6	389.0	219.5	198.4	184.0	169.9	162.0	160.4	160.8	161.2
30°	1900.3	1156.2	306.7	194.3	174.9	161.2	150.5	146.7	146.7	148.0	148.4
32.5°	1832.5	1013.6	242.6	172.4	153.8	141.4	135.2	134.8	136.8	137.7	138.1
35°	1774.2	881.7	200.9	155.4	137.2	126.5	124.4	126.1	128.6	130.2	130.6
37.5°	1732.9	763.9	175.7	141.4	124.4	115.7	115.3	118.6	121.9	125.7	126.5
40°	1715.5	664.3	158.3	129.0	114.1	107.5	106.2	110.8	117.0	122.4	123.2
42.5°	1701.0	582.9	143.4	117.0	105.8	96.3	95.9	101.7	109.1	114.5	115.7
45°	1688.6	517.5	129.8	104.2	95.1	82.7	83.9	91.4	97.1	102.9	104.2
47.5°	1663.0	463.8	114.9	90.5	78.5	70.7	73.2	79.8	84.3	93.0	94.2
50°	1617.1	420.0	99.6	74.0	64.1	61.2	64.9	69.4	75.2	82.7	83.5
52.5°	1586.1	386.9	86.4	62.0	52.9	53.7	57.5	59.1	62.4	65.3	64.5
55°	1568.3	368.7	75.6	53.7	45.1	47.5	48.4	46.3	44.6	41.8	40.5
57.5°	1566.3	352.2	67.4	46.7	39.7	40.9	38.0	31.0	25.2	21.9	21.1
60°	1563.0	331.9	60.8	39.3	35.1	33.5	27.3	16.9	12.0	11.2	11.2
62.5°	1527.0	300.5	55.8	33.1	29.8	25.2	15.7	7.9	6.6	7.0	7.0
65°	1412.5	256.7	50.8	26.9	23.6	18.2	7.9	4.5	2.5	2.9	2.9
67.5°	1200.8	204.6	45.5	20.7	17.8	11.6	4.5	2.1	0.0	0.0	0.0
70°	804.0	126.9	38.4	14.5	11.6	7.0	3.3	0.4	0.0	0.0	0.0
72.5°	308.4	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)