

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: P324858

Luminaire Tested: **GAN-SA4D-750-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324858
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-SA4D-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA 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: 25622 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

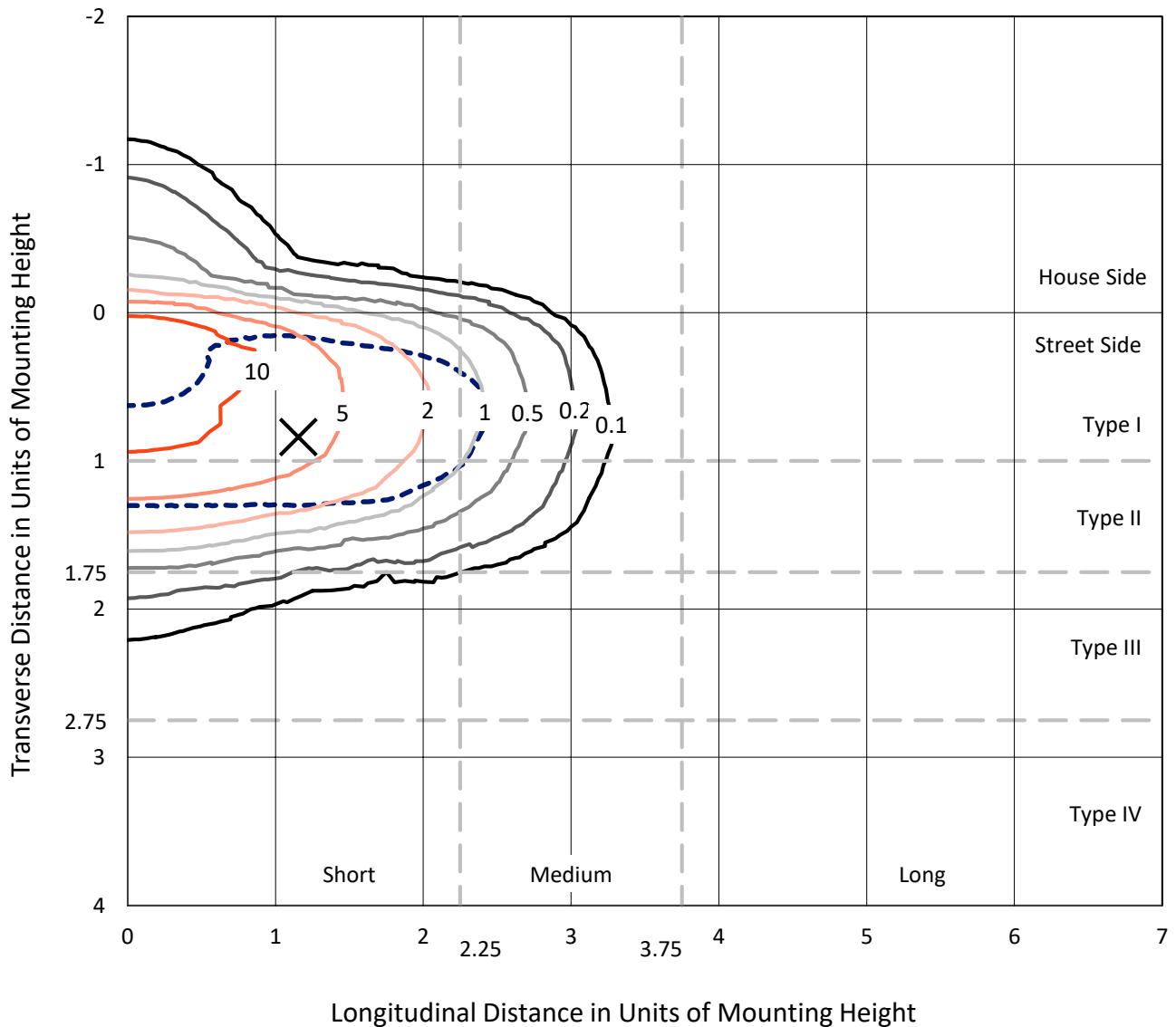
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

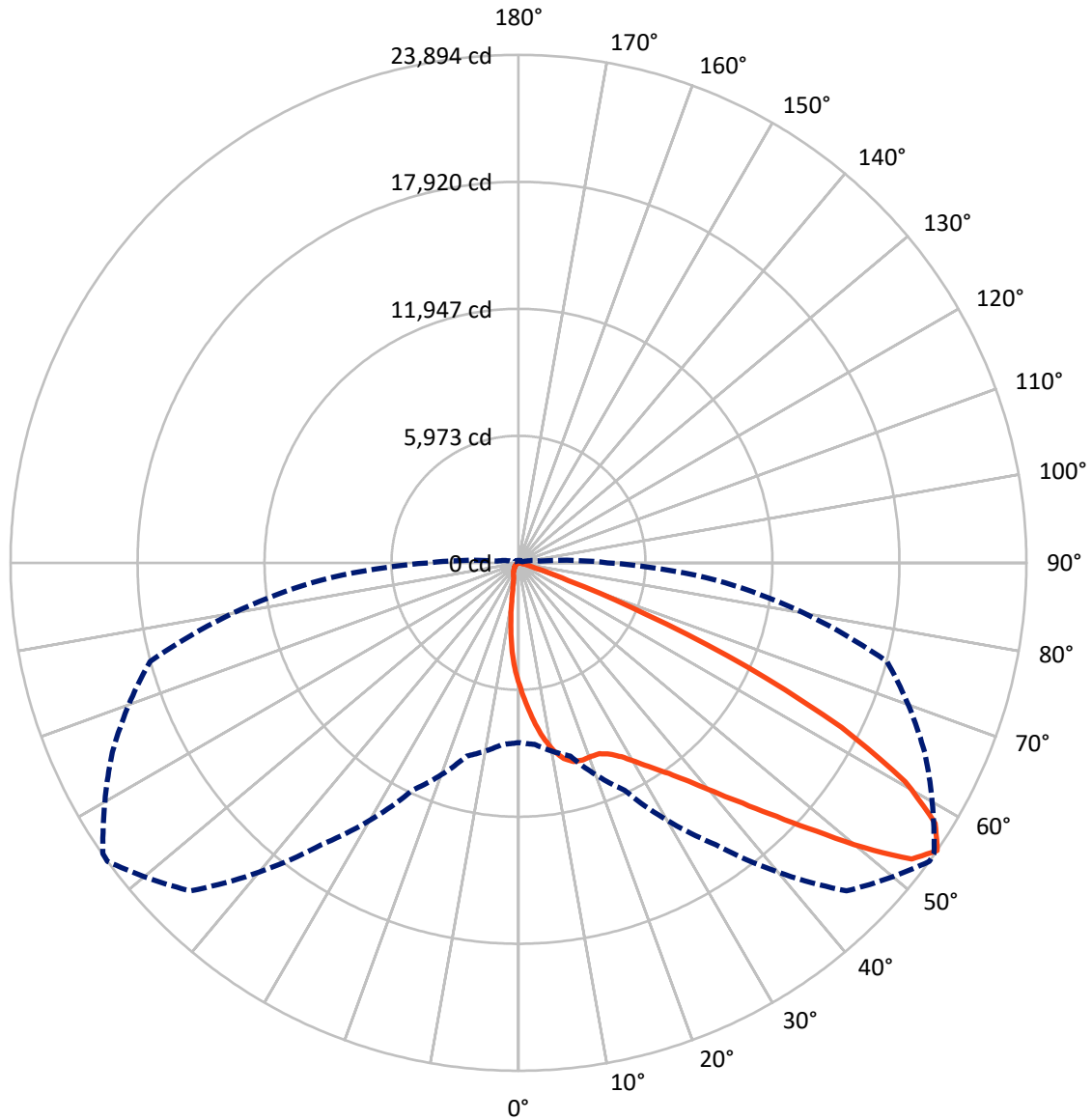
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	1278.3	0.0	1278.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24343.7	0.0	24343.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	25622.0	0.0	25622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.4	2.1
10°-20°	1449.3	5.7
20°-30°	2474.3	9.7
30°-40°	3970.9	15.5
40°-50°	6345.5	24.8
50°-60°	6799.4	26.5
60°-70°	3491.0	13.6
70°-80°	528.8	2.1
80°-90°	34.4	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°	25622.0	100.0
0°-180°	25622.0	100.0

Coefficient of Utilization



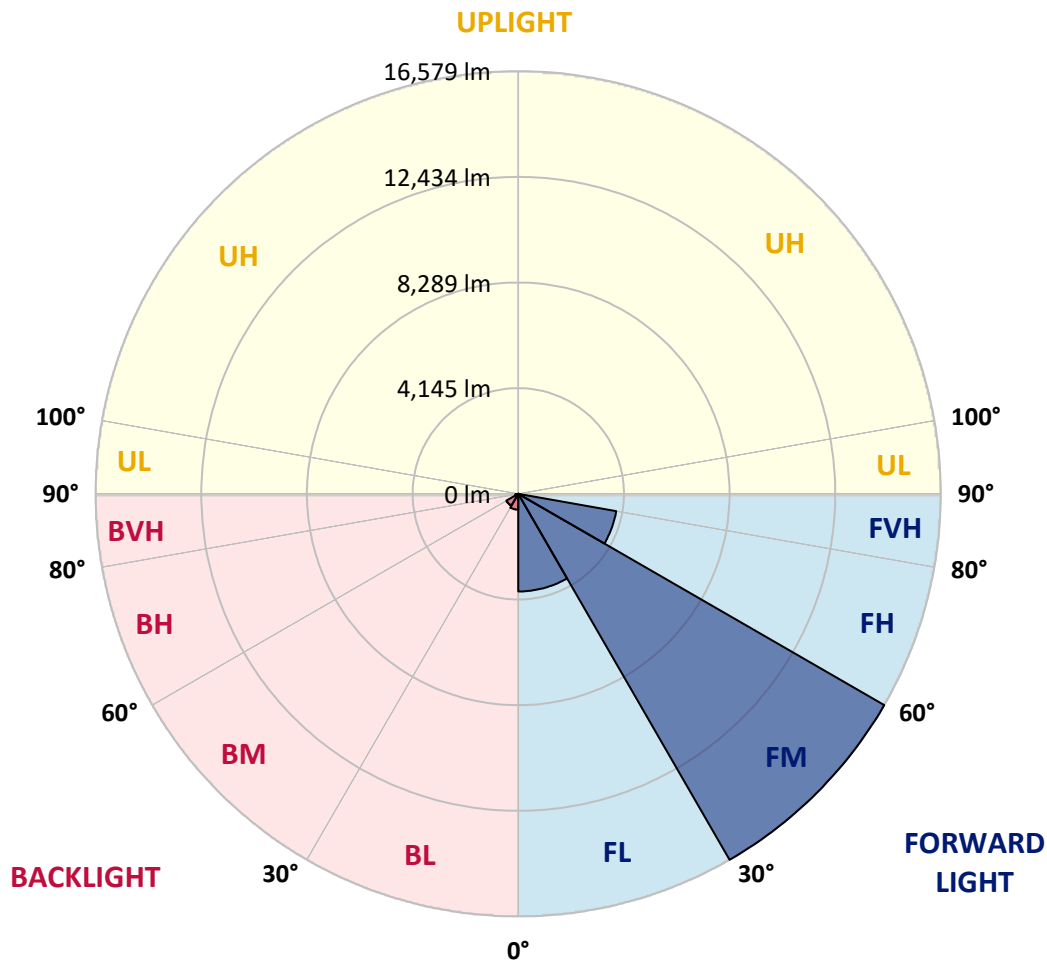
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3830.0	14.9			
FM (30°-60°)	16578.6	64.7			
FH (60°-80°)	3902.0	15.2			G2/5000
FVH (80°-90°)	33.0	0.1			G1/100
BL (0°-30°)	622.0	2.4	B2/1000		
BM (30°-60°)	537.2	2.1	B1/1000		
BH (60°-80°)	117.8	0.5	B1/500		G1/500
BVH (80°-90°)	1.4	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°	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3
2.5°	7201.1	7093.8	7097.1	7048.4	6870.2	6730.8	6585.9	6551.6	6325.9	6089.1	5861.1
5°	8445.9	8367.3	8348.5	8254.5	8006.6	7744.4	7463.3	7398.0	6956.6	6471.9	5995.0
7.5°	9085.5	9086.6	9071.1	9036.8	8881.9	8627.4	8284.4	8215.7	7614.9	6888.0	6134.4
10°	8899.6	8941.6	9027.9	9141.9	9260.3	9228.2	8970.4	8908.4	8255.6	7328.3	6289.3
12.5°	8465.8	8471.4	8567.6	8754.6	9095.4	9445.1	9449.5	9428.5	8867.5	7788.6	6459.7
15°	8250.1	8271.1	8306.5	8427.1	8750.2	9310.1	9710.6	9740.5	9428.5	8277.7	6641.2
17.5°	8391.7	8421.6	8391.7	8406.1	8593.1	9096.5	9756.0	9832.3	9918.6	8761.3	6812.7
20°	8775.6	8803.3	8750.2	8691.5	8728.1	9034.6	9723.9	9826.8	10302.6	9190.6	6956.6
22.5°	9293.5	9304.5	9223.8	9127.5	9100.9	9244.8	9750.5	9856.7	10610.2	9579.0	7047.3
25°	9863.3	9873.3	9772.6	9661.9	9598.9	9657.5	9968.4	10048.1	10881.3	9949.6	7099.3
27.5°	10484.1	10492.9	10366.8	10230.7	10157.7	10159.9	10328.1	10413.3	11170.1	10372.3	7141.3
30°	11140.2	11135.8	11019.6	10830.4	10737.5	10735.2	10845.9	10932.2	11588.4	10914.5	7198.9
32.5°	11877.2	11868.3	11703.4	11468.9	11363.7	11379.2	11477.7	11527.5	12107.3	11492.1	7301.8
35°	12847.6	12822.1	12573.1	12282.1	12088.5	12083.0	12165.9	12205.8	12769.0	12191.4	7473.3
37.5°	14106.7	14083.5	13746.0	13323.3	13051.1	12949.3	13047.8	13098.7	13712.8	13088.8	7748.8
40°	15348.2	15325.0	15124.7	14737.4	14318.1	14073.6	14151.0	14205.2	14891.3	14177.6	8096.2
42.5°	16204.7	16224.6	16294.3	16326.4	15933.6	15420.2	15455.6	15512.0	16129.4	15341.6	8493.5
45°	16430.4	16473.5	16867.5	17640.9	17788.1	17387.5	17016.8	17047.8	17387.5	16505.6	8890.7
47.5°	15752.1	15831.8	16591.9	18030.4	19276.3	19559.6	18858.0	18817.1	18594.7	17447.3	9172.9
50°	14210.8	14283.8	15268.6	17396.4	19727.8	21633.1	21064.4	20943.8	19653.6	18010.5	9272.5
52.5°	11980.1	12068.6	12868.6	15400.2	18876.9	22558.2	23153.5	23052.8	20430.4	18054.7	9289.1
55°	8460.3	8567.6	9414.1	11803.0	16180.3	21822.4	23893.7	23863.8	21075.5	17937.4	9324.5
57.5°	4754.6	4832.1	5744.9	7566.2	11850.6	19007.4	23120.3	23318.3	21465.0	17733.8	9377.6
60°	2111.2	2132.2	2604.7	3766.5	6937.7	14526.1	20906.2	21240.3	21130.8	17461.6	9467.2
62.5°	1170.7	1153.0	1153.0	1565.7	3015.2	8992.5	17047.8	17600.0	19704.5	17139.7	9471.6
65°	917.3	900.7	853.1	859.7	1148.5	3991.1	11805.2	12786.7	16995.8	16195.8	9153.0
67.5°	777.9	763.5	715.9	697.1	713.7	1316.7	6486.3	7505.4	12896.2	13742.7	7928.1
70°	657.3	647.3	623.0	599.7	557.7	650.6	2481.9	3174.5	7946.9	9141.9	5411.9
72.5°	528.9	524.5	533.3	513.4	462.5	433.7	848.7	1027.9	3569.6	4079.7	2229.6
75°	455.9	453.7	458.1	438.2	380.6	302.1	431.5	471.4	1006.9	998.1	451.5
77.5°	296.5	299.9	379.5	370.7	327.5	201.4	223.5	241.2	305.4	229.0	137.2
80°	189.2	187.0	192.5	307.6	294.3	153.8	111.8	117.3	147.2	112.9	66.4
82.5°	115.1	112.9	126.1	143.8	148.3	107.3	68.6	69.7	91.8	73.0	35.4
85°	10.0	13.3	76.3	70.8	50.9	33.2	33.2	35.4	48.7	43.2	19.9
87.5°	0.0	0.0	13.3	19.9	11.1	12.2	12.2	13.3	18.8	18.8	10.0
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°	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3	5738.3
2.5°	5742.7	5627.6	5395.3	5171.8	4982.6	4800.0	4592.0	4386.2	4289.9	4251.2	4211.3
5°	5752.7	5515.9	5036.8	4554.3	4054.2	3603.9	3219.9	2826.0	2629.0	2542.7	2502.9
7.5°	5766.0	5405.2	4630.7	3820.7	3015.2	2404.4	1871.1	1528.1	1379.8	1356.6	1299.0
10°	5768.2	5271.4	4159.3	3010.8	2021.6	1449.5	1115.4	938.3	873.0	862.0	843.2
12.5°	5772.6	5113.1	3636.0	2229.6	1347.7	969.3	806.6	748.0	730.3	729.2	729.2
15°	5785.9	4947.2	3092.7	1606.6	968.2	767.9	708.2	684.9	678.3	681.6	680.5
17.5°	5785.9	4751.3	2559.3	1197.2	782.3	690.5	657.3	641.8	639.6	642.9	644.0
20°	5743.8	4513.4	2070.3	931.7	693.8	640.7	610.8	596.4	590.9	593.1	594.2
22.5°	5643.1	4221.3	1671.9	771.2	635.1	595.3	563.2	541.1	532.2	533.3	533.3
25°	5486.0	3875.0	1307.9	667.2	587.6	546.6	509.0	483.5	478.0	476.9	479.1
27.5°	5284.6	3492.1	1041.2	587.6	531.1	492.4	454.8	433.7	429.3	430.4	431.5
30°	5086.6	3094.9	821.0	520.1	468.0	431.5	402.8	392.8	392.8	396.1	397.2
32.5°	4905.1	2713.1	649.5	461.4	411.6	378.4	361.8	360.7	366.3	368.5	369.6
35°	4749.1	2360.2	537.8	416.0	367.4	338.6	333.1	337.5	344.1	348.5	349.7
37.5°	4638.4	2044.8	470.3	378.4	333.1	309.8	308.7	317.6	326.4	336.4	338.6
40°	4592.0	1778.1	423.8	345.2	305.4	287.7	284.4	296.5	313.1	327.5	329.7
42.5°	4553.2	1560.2	384.0	313.1	283.3	257.8	256.7	272.2	292.1	306.5	309.8
45°	4520.0	1385.3	347.4	278.8	254.5	221.3	224.6	244.5	260.0	275.5	278.8
47.5°	4451.4	1241.5	307.6	242.3	210.2	189.2	195.9	213.6	225.7	249.0	252.3
50°	4328.6	1124.2	266.7	198.1	171.5	163.8	173.7	185.9	201.4	221.3	223.5
52.5°	4245.6	1035.7	231.3	166.0	141.6	143.8	153.8	158.2	167.1	174.8	172.6
55°	4198.1	987.0	202.5	143.8	120.6	127.2	129.5	123.9	119.5	111.8	108.4
57.5°	4192.5	942.7	180.4	125.0	106.2	109.5	101.8	83.0	67.5	58.6	56.4
60°	4183.7	888.5	162.7	105.1	94.1	89.6	73.0	45.4	32.1	29.9	29.9
62.5°	4087.4	804.4	149.4	88.5	79.7	67.5	42.0	21.0	17.7	18.8	18.8
65°	3780.9	687.1	136.1	71.9	63.1	48.7	21.0	12.2	6.6	7.7	7.7
67.5°	3214.4	547.7	121.7	55.3	47.6	31.0	12.2	5.5	0.0	0.0	0.0
70°	2152.1	339.7	102.9	38.7	31.0	18.8	8.9	1.1	0.0	0.0	0.0
72.5°	825.4	183.7	83.0	23.2	19.9	13.3	5.5	0.0	0.0	0.0	0.0
75°	185.9	120.6	57.5	16.6	14.4	8.9	2.2	0.0	0.0	0.0	0.0
77.5°	70.8	87.4	33.2	11.1	10.0	5.5	0.0	0.0	0.0	0.0	0.0
80°	34.3	52.0	15.5	6.6	5.5	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	19.9	6.6	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	10.0	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	3.3	1.1	1.1	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)