

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: P324817

Luminaire Tested: **GAN-SA3D-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324817
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-SA3D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 19392 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

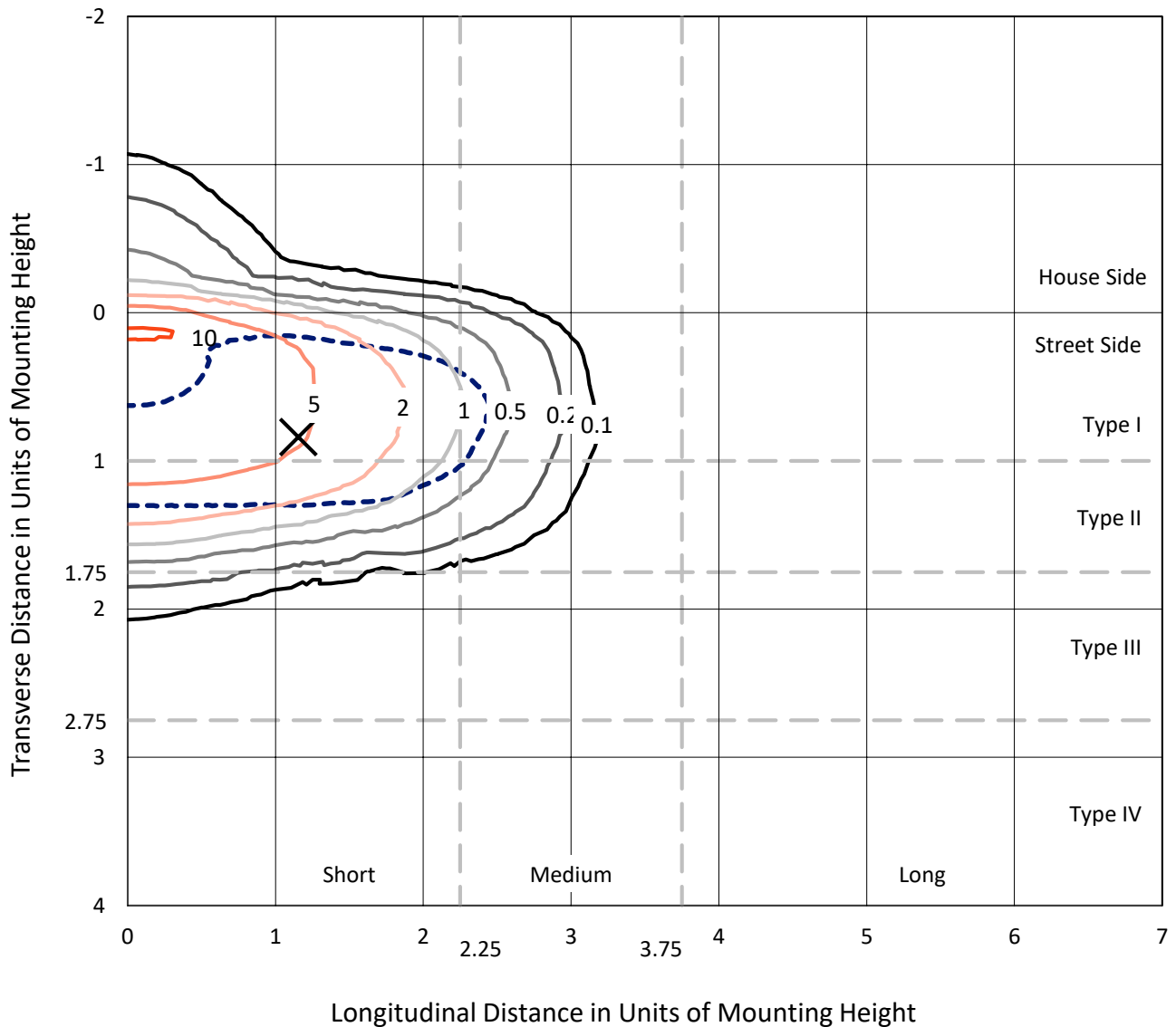
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

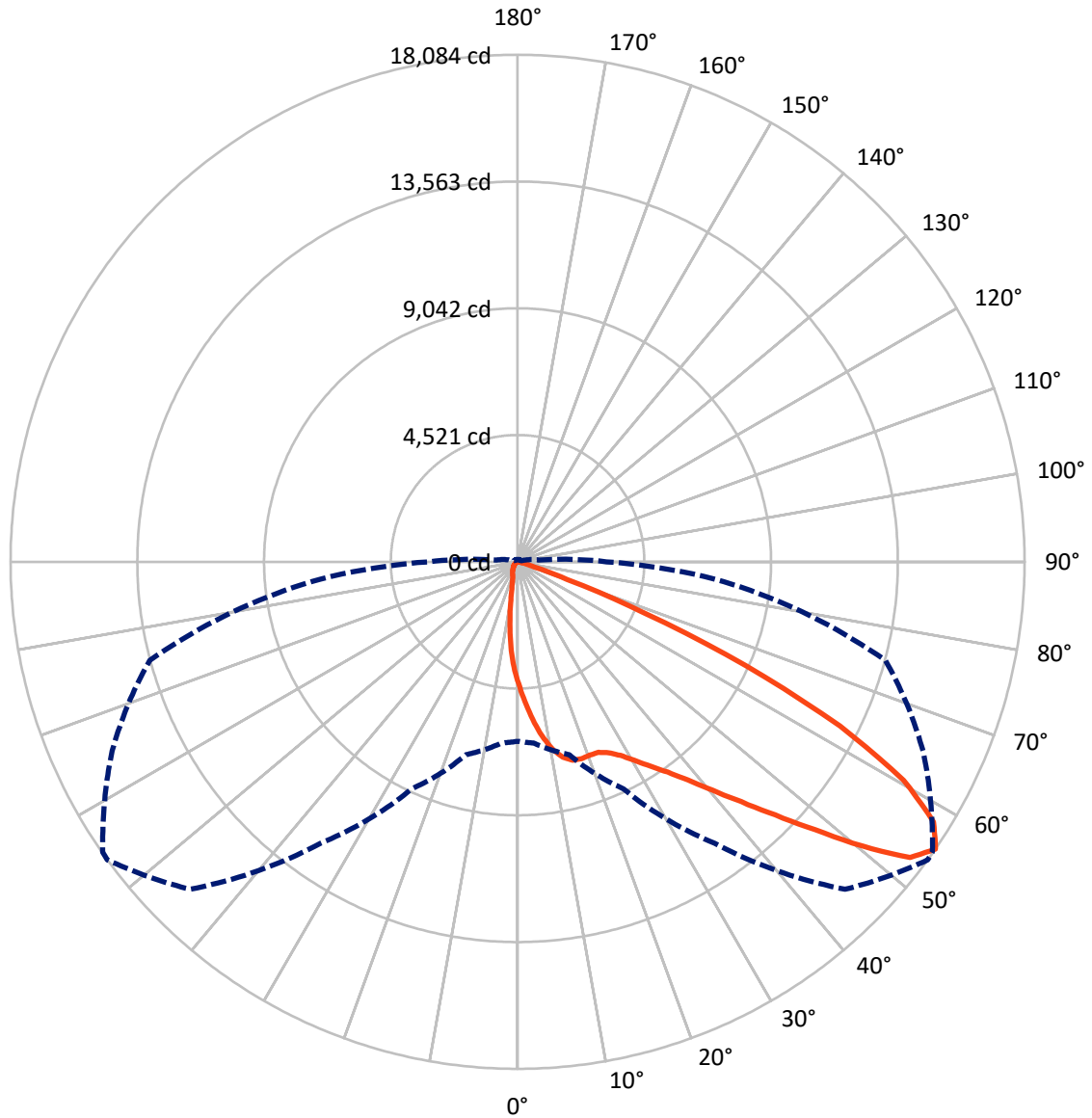
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	967.5	0.0	967.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18424.5	0.0	18424.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	19392.0	0.0	19392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.9	2.1
10°-20°	1096.9	5.7
20°-30°	1872.7	9.7
30°-40°	3005.4	15.5
40°-50°	4802.6	24.8
50°-60°	5146.1	26.5
60°-70°	2642.2	13.6
70°-80°	400.2	2.1
80°-90°	26.1	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°	19392.0	100.0
0°-180°	19392.0	100.0

Coefficient of Utilization

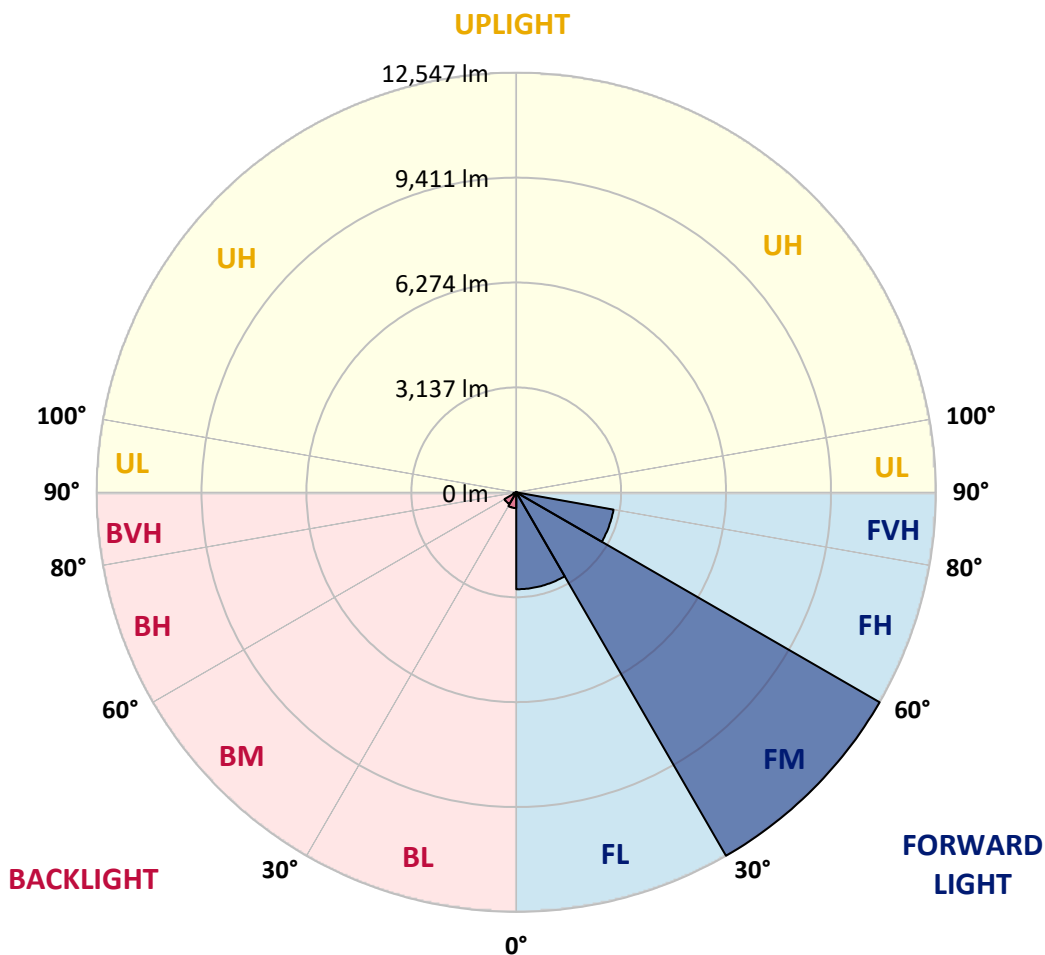


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2898.8	14.9			
FM (30°-60°)	12547.5	64.7			
FH (60°-80°)	2953.2	15.2			G2/5000
FVH (80°-90°)	25.0	0.1			G1/100
BL (0°-30°)	470.7	2.4	B1/500		
BM (30°-60°)	406.6	2.1	B1/1000		
BH (60°-80°)	89.2	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0
2.5°	5450.1	5368.9	5371.4	5334.6	5199.7	5094.2	4984.5	4958.6	4787.7	4608.5	4436.0
5°	6392.3	6332.8	6318.6	6247.4	6059.8	5861.3	5648.6	5599.2	5265.1	4898.3	4537.3
7.5°	6876.3	6877.2	6865.4	6839.5	6722.2	6529.6	6270.0	6218.1	5763.3	5213.1	4642.8
10°	6735.6	6767.5	6832.8	6919.0	7008.6	6984.4	6789.2	6742.3	6248.2	5546.4	4760.1
12.5°	6407.4	6411.5	6484.4	6625.9	6883.9	7148.5	7151.8	7135.9	6711.3	5894.8	4889.0
15°	6244.0	6260.0	6286.8	6378.0	6622.6	7046.3	7349.5	7372.1	7135.9	6265.0	5026.4
17.5°	6351.2	6373.9	6351.2	6362.1	6503.7	6884.7	7383.8	7441.6	7506.9	6631.0	5156.2
20°	6641.8	6662.8	6622.6	6578.2	6605.8	6837.8	7359.5	7437.4	7797.5	6955.9	5265.1
22.5°	7033.8	7042.1	6981.0	6908.1	6888.0	6996.9	7379.6	7460.0	8030.3	7249.8	5333.7
25°	7465.1	7472.6	7396.4	7312.6	7264.9	7309.3	7544.6	7604.9	8235.5	7530.4	5373.1
27.5°	7934.9	7941.6	7846.1	7743.1	7687.8	7689.5	7816.8	7881.3	8454.1	7850.3	5404.9
30°	8431.5	8428.1	8340.2	8197.0	8126.6	8125.0	8208.7	8274.0	8770.6	8260.6	5448.5
32.5°	8989.2	8982.5	8857.7	8680.2	8600.6	8612.4	8686.9	8724.6	9163.4	8697.8	5526.4
35°	9723.7	9704.4	9516.0	9295.7	9149.2	9145.0	9207.8	9237.9	9664.2	9227.1	5656.2
37.5°	10676.7	10659.1	10403.7	10083.8	9877.8	9800.7	9875.2	9913.8	10378.6	9906.2	5864.7
40°	11616.3	11598.7	11447.1	11154.0	10836.6	10651.6	10710.2	10751.2	11270.4	10730.3	6127.6
42.5°	12264.5	12279.6	12332.3	12356.6	12059.3	11670.7	11697.5	11740.2	12207.5	11611.3	6428.3
45°	12435.3	12468.0	12766.1	13351.5	13462.9	13159.7	12879.2	12902.6	13159.7	12492.3	6728.9
47.5°	11922.0	11982.3	12557.6	13646.3	14589.3	14803.7	14272.7	14241.7	14073.4	13205.0	6942.5
50°	10755.4	10810.7	11556.0	13166.4	14930.9	16373.0	15942.6	15851.3	14874.8	13631.2	7017.9
52.5°	9067.1	9134.1	9739.6	11655.7	14286.9	17073.1	17523.7	17447.5	15462.7	13664.7	7030.4
55°	6403.2	6484.4	7125.0	8933.1	12246.1	16516.2	18084.0	18061.3	15951.0	13575.9	7057.2
57.5°	3598.5	3657.2	4348.1	5726.5	8969.1	14385.8	17498.6	17648.5	16245.7	13421.9	7097.4
60°	1597.9	1613.8	1971.4	2850.7	5250.8	10994.1	15822.8	16075.7	15992.8	13215.8	7165.2
62.5°	886.0	872.6	872.6	1185.0	2282.1	6806.0	12902.6	13320.5	14913.4	12972.1	7168.6
65°	694.2	681.7	645.7	650.7	869.3	3020.7	8934.8	9677.6	12863.3	12257.8	6927.4
67.5°	588.7	577.8	541.8	527.6	540.2	996.6	4909.1	5680.4	9760.5	10401.2	6000.3
70°	497.4	489.9	471.5	453.9	422.1	492.4	1878.4	2402.7	6014.6	6919.0	4096.0
72.5°	400.3	397.0	403.7	388.6	350.1	328.3	642.3	778.0	2701.6	3087.7	1687.5
75°	345.0	343.4	346.7	331.6	288.1	228.6	326.6	356.8	762.1	755.4	341.7
77.5°	224.4	226.9	287.2	280.5	247.9	152.4	169.2	182.6	231.1	173.4	103.8
80°	143.2	141.5	145.7	232.8	222.8	116.4	84.6	88.8	111.4	85.4	50.2
82.5°	87.1	85.4	95.5	108.9	112.2	81.2	51.9	52.8	69.5	55.3	26.8
85°	7.5	10.0	57.8	53.6	38.5	25.1	25.1	26.8	36.8	32.7	15.1
87.5°	0.0	0.0	10.0	15.1	8.4	9.2	9.2	10.0	14.2	14.2	7.5
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°	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0
2.5°	4346.4	4259.3	4083.4	3914.3	3771.0	3632.9	3475.4	3319.7	3246.8	3217.5	3187.3
5°	4353.9	4174.7	3812.1	3447.0	3068.4	2727.6	2437.0	2138.9	1989.8	1924.5	1894.3
7.5°	4364.0	4091.0	3504.7	2891.7	2282.1	1819.8	1416.1	1156.5	1044.3	1026.7	983.2
10°	4365.6	3989.6	3148.0	2278.7	1530.0	1097.1	844.2	710.2	660.8	652.4	638.1
12.5°	4369.0	3869.9	2751.9	1687.5	1020.0	733.6	610.5	566.1	552.7	551.9	551.9
15°	4379.0	3744.3	2340.7	1216.0	732.8	581.2	536.0	518.4	513.4	515.9	515.0
17.5°	4379.0	3596.0	1937.0	906.1	592.1	522.6	497.4	485.7	484.0	486.6	487.4
20°	4347.2	3416.0	1566.9	705.1	525.1	484.9	462.3	451.4	447.2	448.9	449.7
22.5°	4271.0	3194.9	1265.4	583.7	480.7	450.5	426.3	409.5	402.8	403.7	403.7
25°	4152.1	2932.8	989.9	505.0	444.7	413.7	385.2	366.0	361.8	360.9	362.6
27.5°	3999.7	2643.0	788.0	444.7	402.0	372.7	344.2	328.3	324.9	325.8	326.6
30°	3849.8	2342.4	621.4	393.6	354.2	326.6	304.8	297.3	297.3	299.8	300.6
32.5°	3712.4	2053.4	491.6	349.2	311.5	286.4	273.8	273.0	277.2	278.9	279.7
35°	3594.3	1786.3	407.0	314.9	278.0	256.3	252.1	255.4	260.4	263.8	264.6
37.5°	3510.6	1547.6	355.9	286.4	252.1	234.5	233.6	240.3	247.0	254.6	256.3
40°	3475.4	1345.8	320.7	261.3	231.1	217.7	215.2	224.4	237.0	247.9	249.6
42.5°	3446.1	1180.8	290.6	237.0	214.4	195.1	194.3	206.0	221.1	232.0	234.5
45°	3421.0	1048.5	263.0	211.0	192.6	167.5	170.0	185.1	196.8	208.5	211.0
47.5°	3369.1	939.6	232.8	183.4	159.1	143.2	148.2	161.6	170.8	188.4	190.9
50°	3276.1	850.9	201.8	149.9	129.8	123.9	131.5	140.7	152.4	167.5	169.2
52.5°	3213.3	783.9	175.0	125.6	107.2	108.9	116.4	119.8	126.5	132.3	130.6
55°	3177.3	747.0	153.3	108.9	91.3	96.3	98.0	93.8	90.4	84.6	82.1
57.5°	3173.1	713.5	136.5	94.6	80.4	82.9	77.0	62.8	51.1	44.4	42.7
60°	3166.4	672.5	123.1	79.6	71.2	67.8	55.3	34.3	24.3	22.6	22.6
62.5°	3093.6	608.8	113.1	67.0	60.3	51.1	31.8	15.9	13.4	14.2	14.2
65°	2861.6	520.1	103.0	54.4	47.7	36.8	15.9	9.2	5.0	5.9	5.9
67.5°	2432.8	414.5	92.1	41.9	36.0	23.4	9.2	4.2	0.0	0.0	0.0
70°	1628.8	257.1	77.9	29.3	23.4	14.2	6.7	0.8	0.0	0.0	0.0
72.5°	624.7	139.0	62.8	17.6	15.1	10.0	4.2	0.0	0.0	0.0	0.0
75°	140.7	91.3	43.5	12.6	10.9	6.7	1.7	0.0	0.0	0.0	0.0
77.5°	53.6	66.2	25.1	8.4	7.5	4.2	0.0	0.0	0.0	0.0	0.0
80°	26.0	39.4	11.7	5.0	4.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	15.1	5.0	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	7.5	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.5	0.8	0.8	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)