

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: P383133

Luminaire Tested: **GAN-SA4D-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383133
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-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 23869 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

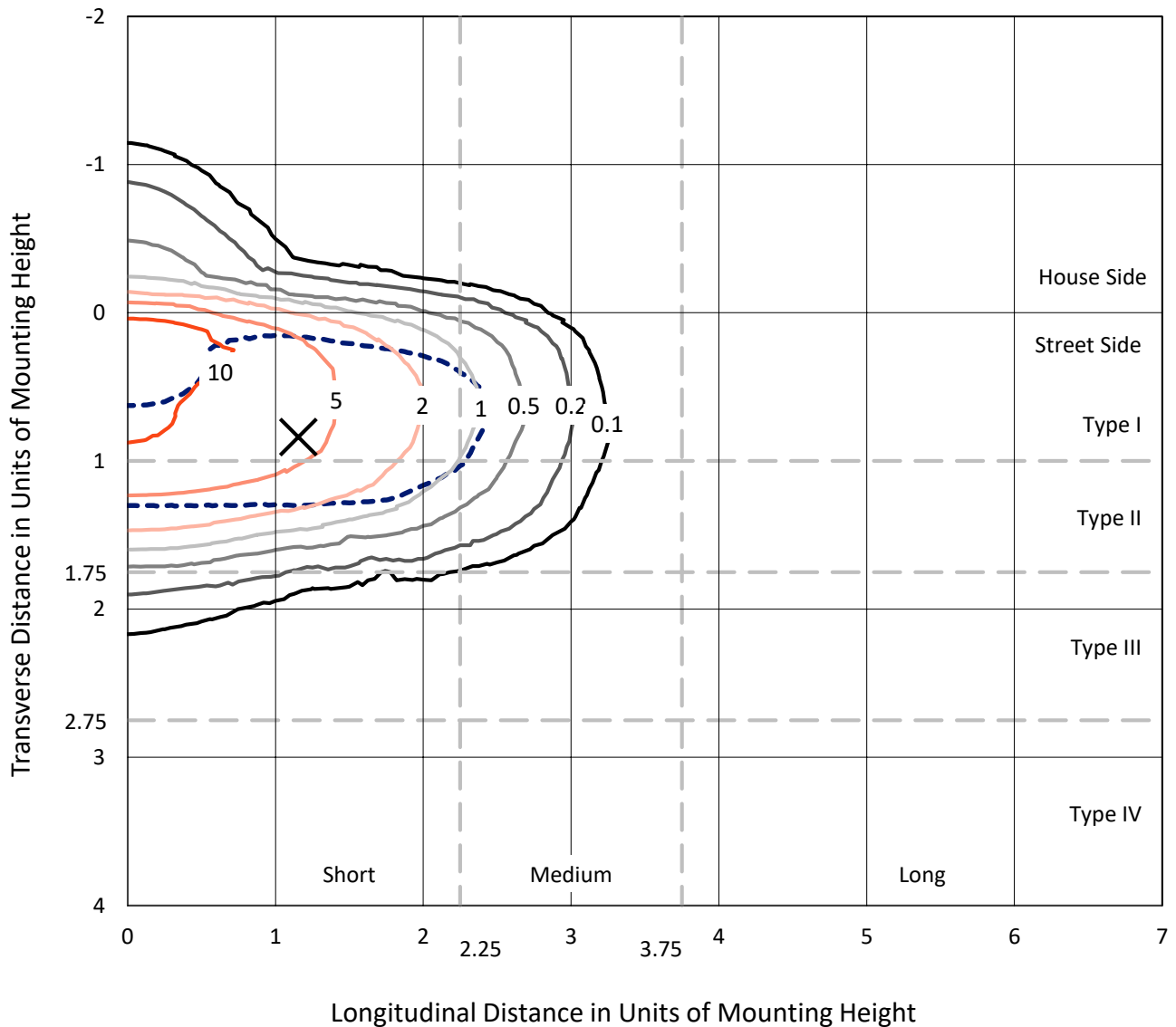
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383133
 CATALOG NUMBER: GAN-SA4D-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

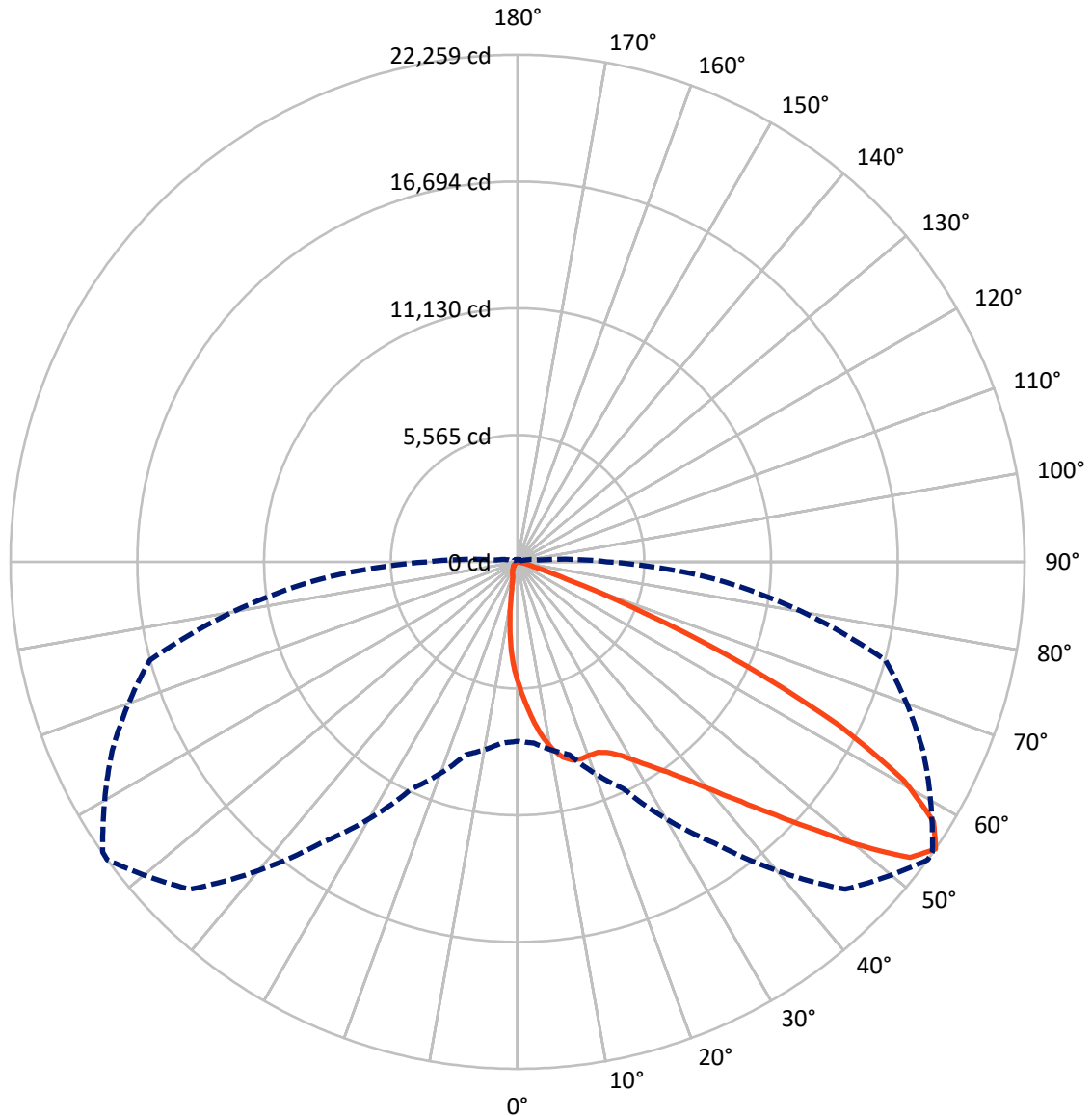
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

REPORT NUMBER: P383133
CATALOG NUMBER: GAN-SA4D-735-U-AFL-HSS

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	1190.9	0.0	1190.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22678.2	0.0	22678.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	23869.0	0.0	23869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.3	2.1
10°-20°	1350.1	5.7
20°-30°	2305.0	9.7
30°-40°	3699.2	15.5
40°-50°	5911.4	24.8
50°-60°	6334.2	26.5
60°-70°	3252.2	13.6
70°-80°	492.6	2.1
80°-90°	32.1	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°	23869.0	100.0
0°-180°	23869.0	100.0

Coefficient of Utilization

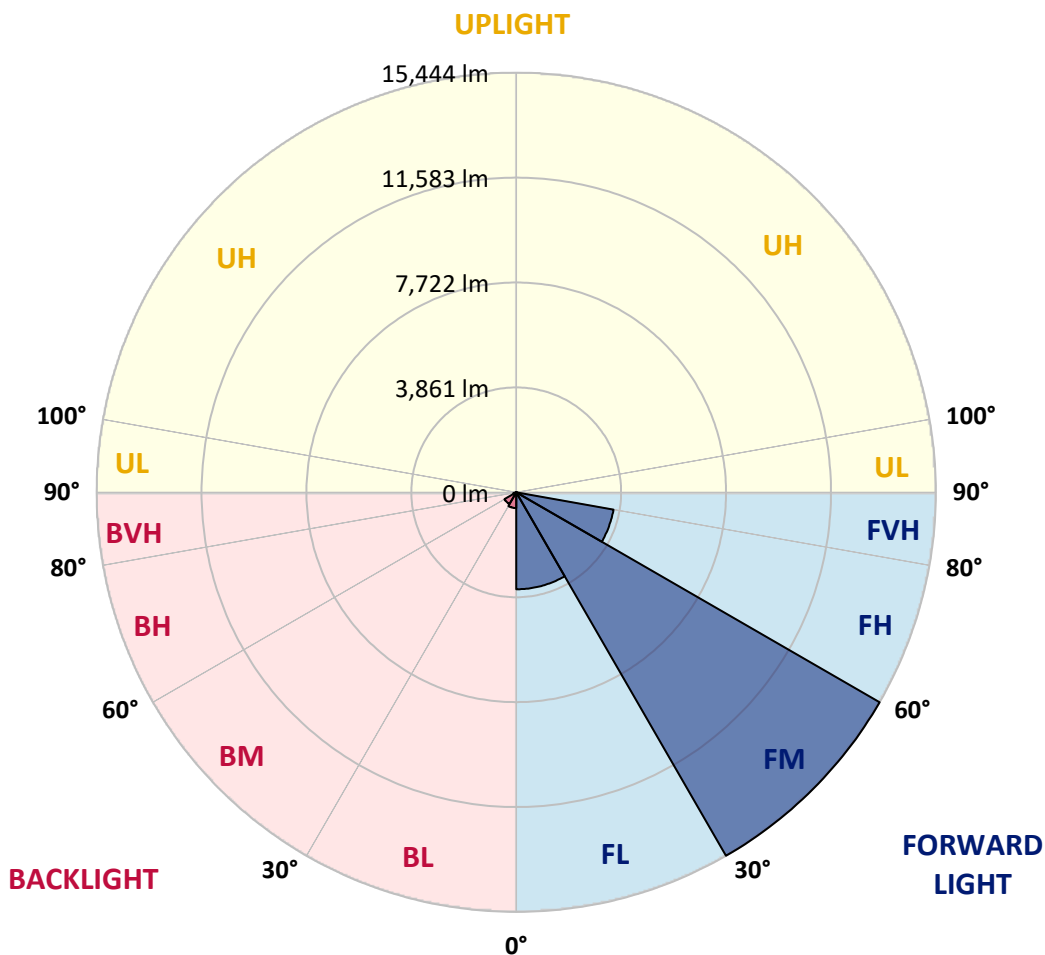


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3568.0	14.9			
FM (30°-60°)	15444.3	64.7			
FH (60°-80°)	3635.0	15.2			G2/5000
FVH (80°-90°)	30.8	0.1			G1/100
BL (0°-30°)	579.4	2.4	B2/1000		
BM (30°-60°)	500.4	2.1	B1/1000		
BH (60°-80°)	109.7	0.5	B0/110		G0/110
BVH (80°-90°)	1.3	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





REPORT NUMBER: P383133

CATALOG NUMBER: GAN-SA4D-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7
2.5°	6708.4	6608.4	6611.6	6566.2	6400.2	6270.3	6135.3	6103.3	5893.1	5672.5	5460.1
5°	7868.0	7794.9	7777.4	7689.7	7458.8	7214.6	6952.7	6891.9	6480.6	6029.2	5584.8
7.5°	8463.9	8464.9	8450.4	8418.5	8274.2	8037.1	7717.6	7653.7	7093.9	6416.7	5714.8
10°	8290.7	8329.9	8410.3	8516.4	8626.7	8596.9	8356.6	8299.0	7690.8	6826.9	5859.1
12.5°	7886.6	7891.8	7981.4	8155.7	8473.2	8798.8	8803.0	8783.4	8260.8	7255.7	6017.8
15°	7685.6	7705.2	7738.2	7850.5	8151.5	8673.1	9046.3	9074.1	8783.4	7711.4	6186.9
17.5°	7817.5	7845.4	7817.5	7831.0	8005.2	8474.2	9088.6	9159.6	9240.0	8161.8	6346.6
20°	8175.3	8201.0	8151.5	8096.9	8130.9	8416.4	9058.6	9154.5	9597.7	8561.8	6480.6
22.5°	8657.6	8668.0	8592.7	8503.1	8478.3	8612.3	9083.3	9182.4	9884.3	8923.6	6565.2
25°	9188.5	9197.8	9104.0	9000.9	8942.1	8996.8	9286.4	9360.7	10136.8	9268.9	6613.6
27.5°	9766.8	9775.0	9657.5	9530.8	9462.7	9464.8	9621.5	9700.9	10405.9	9662.7	6652.7
30°	10378.1	10373.9	10265.7	10089.4	10002.9	10000.8	10103.8	10184.2	10795.5	10167.7	6706.4
32.5°	11064.5	11056.4	10902.7	10684.2	10586.3	10600.7	10692.5	10738.8	11279.0	10705.8	6802.3
35°	11968.6	11944.9	11712.9	11441.8	11261.5	11256.3	11333.6	11370.7	11895.4	11357.3	6962.0
37.5°	13141.6	13120.0	12805.6	12411.8	12158.3	12063.4	12155.1	12202.5	12774.7	12193.3	7218.7
40°	14298.1	14276.5	14089.9	13729.1	13338.5	13110.7	13182.9	13233.4	13872.4	13207.6	7542.4
42.5°	15096.0	15114.5	15179.5	15209.4	14843.5	14365.2	14398.2	14450.7	15026.0	14292.0	7912.4
45°	15306.3	15346.5	15713.4	16434.0	16571.1	16197.9	15852.6	15881.5	16197.9	15376.4	8282.5
47.5°	14674.4	14748.6	15456.8	16796.8	17957.5	18221.4	17567.9	17529.7	17322.5	16253.5	8545.3
50°	13238.5	13306.5	14224.0	16206.1	18378.0	20153.1	19623.2	19510.9	18309.0	16778.3	8638.1
52.5°	11160.4	11242.8	11988.2	14346.6	17585.4	21014.9	21569.4	21475.6	19032.6	16819.5	8653.5
55°	7881.5	7981.4	8770.1	10995.5	15073.4	20329.3	22259.1	22231.2	19633.6	16710.2	8686.5
57.5°	4429.3	4501.5	5351.9	7048.6	11039.9	17707.0	21538.5	21723.0	19996.4	16520.5	8736.0
60°	1966.8	1986.3	2426.5	3508.9	6463.1	13532.3	19475.9	19787.2	19685.1	16267.0	8819.5
62.5°	1090.6	1074.1	1074.1	1458.6	2808.9	8377.3	15881.5	16395.8	18356.4	15967.0	8823.6
65°	854.5	839.0	794.7	800.9	1070.0	3718.1	10997.6	11911.9	15833.0	15087.7	8526.7
67.5°	724.7	711.2	666.9	649.4	664.8	1226.7	6042.5	6991.9	12013.9	12802.4	7385.7
70°	612.3	603.0	580.4	558.6	519.5	606.1	2312.1	2957.4	7403.2	8516.4	5041.6
72.5°	492.7	488.6	496.9	478.3	430.8	404.1	790.6	957.6	3325.3	3800.5	2077.1
75°	424.7	422.6	426.7	408.2	354.6	281.4	402.1	439.1	938.1	929.8	420.6
77.5°	276.3	279.4	353.5	345.3	305.1	187.6	208.2	224.7	284.5	213.4	127.8
80°	176.2	174.2	179.3	286.5	274.2	143.3	104.1	109.3	137.1	105.2	61.9
82.5°	107.2	105.2	117.5	134.0	138.1	100.0	63.9	64.9	85.5	68.0	33.0
85°	9.3	12.4	71.2	66.0	47.4	30.9	30.9	33.0	45.4	40.2	18.5
87.5°	0.0	0.0	12.4	18.5	10.3	11.4	11.4	12.4	17.5	17.5	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383133
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7	5345.7
2.5°	5349.8	5242.7	5026.2	4818.0	4641.7	4471.6	4277.8	4086.0	3996.4	3960.3	3923.2
5°	5359.1	5138.5	4692.2	4242.7	3776.9	3357.3	2999.6	2632.6	2449.1	2368.7	2331.7
7.5°	5371.5	5035.5	4313.9	3559.4	2808.9	2239.9	1743.1	1423.5	1285.4	1263.7	1210.2
10°	5373.5	4910.7	3874.8	2804.8	1883.3	1350.4	1039.0	874.1	813.3	803.0	785.5
12.5°	5377.6	4763.3	3387.2	2077.1	1255.5	902.9	751.5	696.8	680.3	679.3	679.3
15°	5390.0	4608.6	2881.1	1496.7	901.9	715.3	659.7	638.0	631.9	634.9	633.9
17.5°	5390.0	4426.2	2384.2	1115.3	728.7	643.2	612.3	597.9	595.8	598.9	599.9
20°	5350.9	4204.6	1928.6	867.9	646.3	596.8	569.0	555.6	550.5	552.5	553.5
22.5°	5257.1	3932.5	1557.5	718.5	591.7	554.6	524.6	504.1	495.8	496.9	496.9
25°	5110.7	3609.8	1218.4	621.5	547.4	509.2	474.2	450.5	445.3	444.3	446.3
27.5°	4923.0	3253.2	970.0	547.4	494.7	458.7	423.7	404.1	399.9	400.9	402.1
30°	4738.6	2883.1	764.9	484.5	436.1	402.1	375.2	365.9	365.9	369.0	370.0
32.5°	4569.5	2527.5	605.0	429.8	383.4	352.5	337.0	336.0	341.2	343.3	344.3
35°	4424.2	2198.7	501.0	387.6	342.3	315.4	310.3	314.4	320.5	324.7	325.8
37.5°	4321.1	1904.9	438.1	352.5	310.3	288.6	287.6	295.9	304.1	313.4	315.4
40°	4277.8	1656.5	394.8	321.6	284.5	268.0	264.9	276.3	291.8	305.1	307.1
42.5°	4241.7	1453.4	357.7	291.8	263.9	240.2	239.1	253.6	272.1	285.5	288.6
45°	4210.8	1290.6	323.7	259.7	237.1	206.2	209.2	227.8	242.2	256.6	259.7
47.5°	4146.9	1156.5	286.5	225.7	195.8	176.2	182.5	199.0	210.3	232.0	235.0
50°	4032.5	1047.2	248.4	184.5	159.8	152.6	161.8	173.2	187.6	206.2	208.2
52.5°	3955.2	964.8	215.5	154.6	131.9	134.0	143.3	147.4	155.7	162.8	160.8
55°	3910.8	919.4	188.6	134.0	112.3	118.6	120.6	115.4	111.3	104.1	101.0
57.5°	3905.7	878.3	168.1	116.4	98.9	102.0	94.8	77.3	62.9	54.6	52.5
60°	3897.4	827.8	151.6	97.9	87.7	83.5	68.0	42.3	29.9	27.9	27.9
62.5°	3807.8	749.4	139.2	82.4	74.2	62.9	39.1	19.6	16.5	17.5	17.5
65°	3522.3	640.2	126.8	67.0	58.8	45.4	19.6	11.4	6.1	7.2	7.2
67.5°	2994.5	510.2	113.4	51.5	44.3	28.9	11.4	5.1	0.0	0.0	0.0
70°	2004.9	316.4	95.9	36.1	28.9	17.5	8.3	1.0	0.0	0.0	0.0
72.5°	769.0	171.1	77.3	21.6	18.5	12.4	5.1	0.0	0.0	0.0	0.0
75°	173.2	112.3	53.6	15.5	13.4	8.3	2.0	0.0	0.0	0.0	0.0
77.5°	66.0	81.4	30.9	10.3	9.3	5.1	0.0	0.0	0.0	0.0	0.0
80°	32.0	48.4	14.4	6.1	5.1	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	18.5	6.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	9.3	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	3.1	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)