

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: P383152

Luminaire Tested: **GAN-SA4D-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22424.2 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

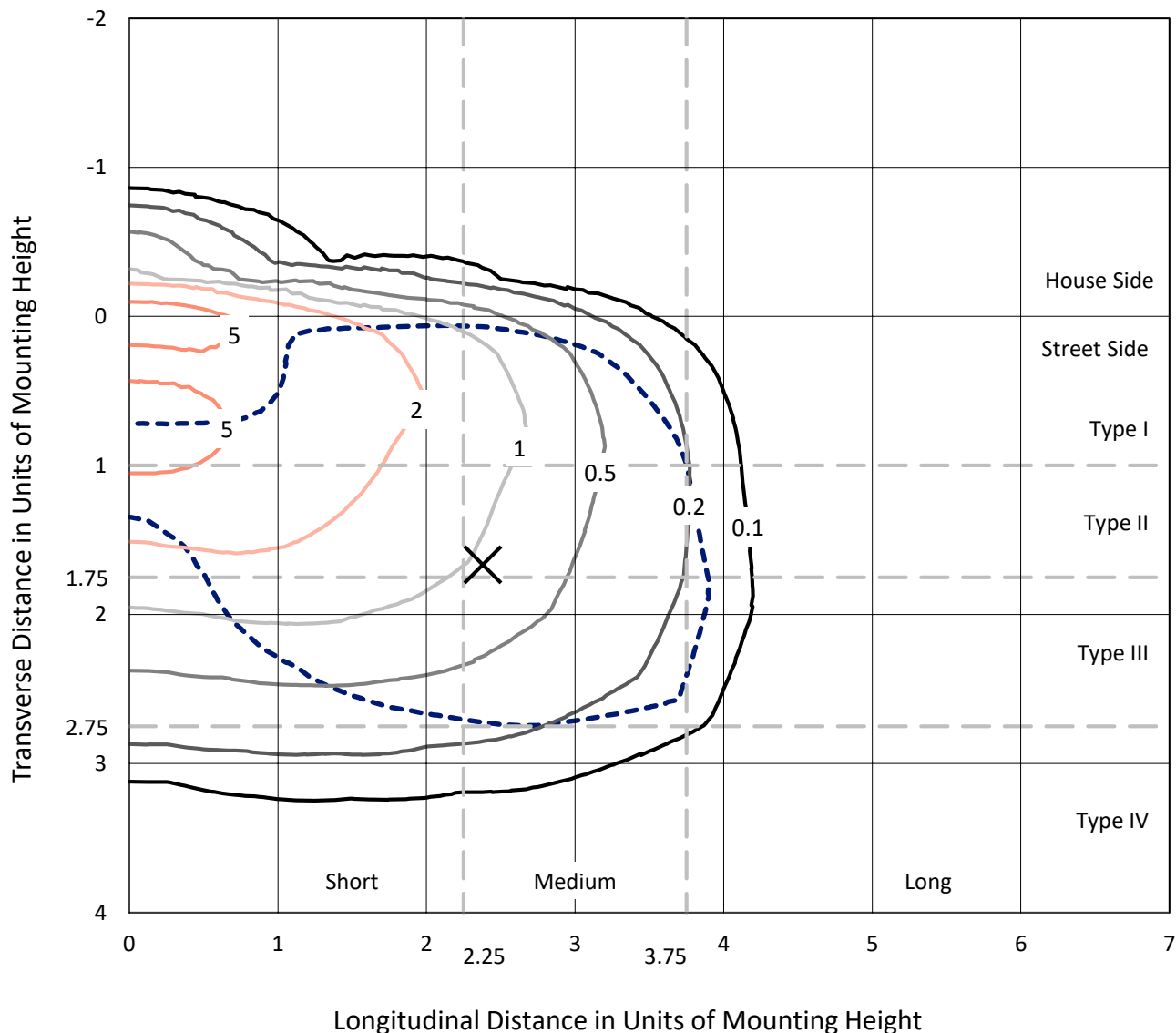
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383152
 CATALOG NUMBER: GAN-SA4D-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

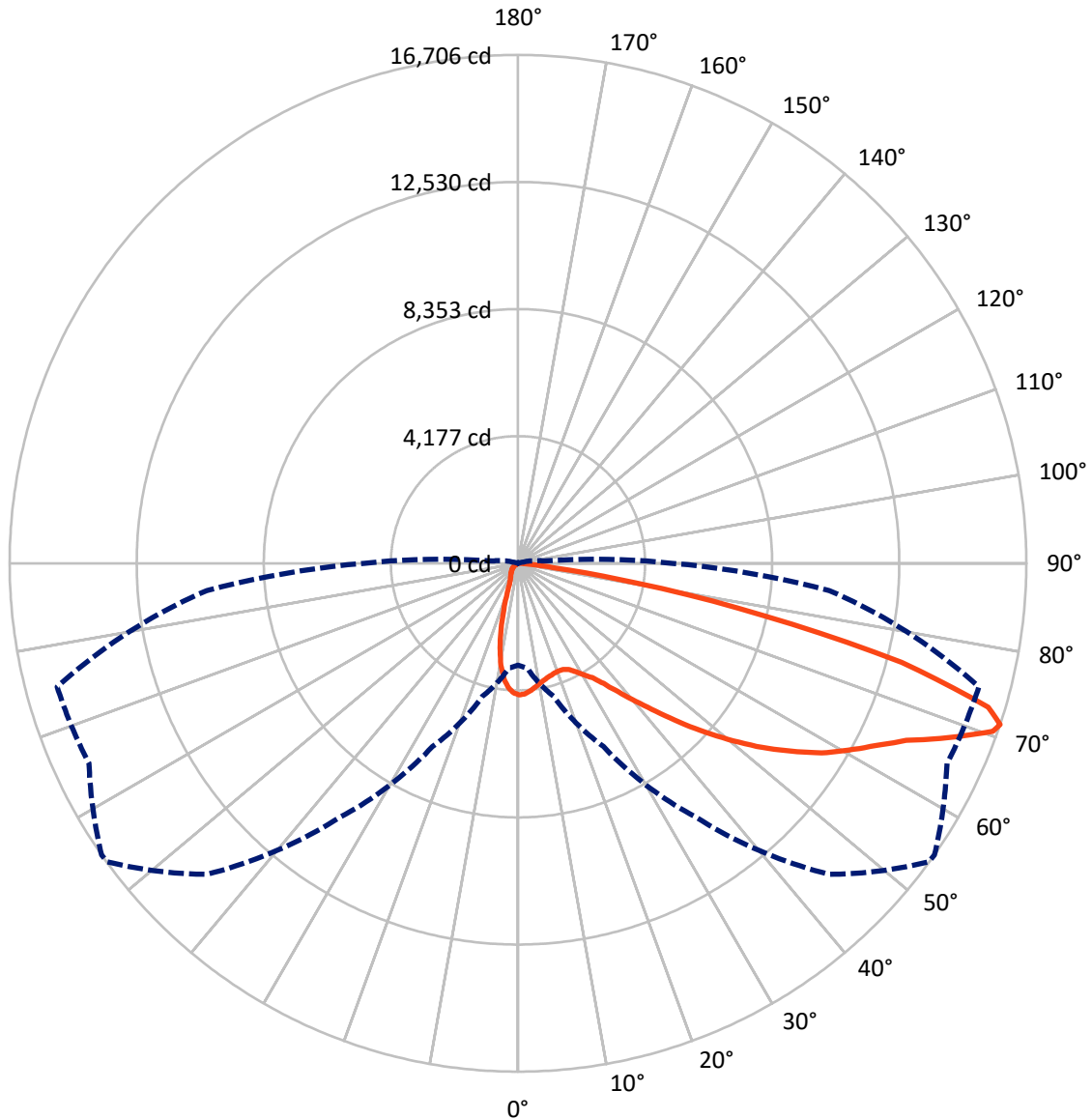
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P383152
CATALOG NUMBER: GAN-SA4D-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.4	0.0	1775.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	20648.8	0.0	20648.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	22424.2	0.0	22424.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.7	1.6
10°-20°	832.4	3.7
20°-30°	1337.8	6.0
30°-40°	2272.9	10.1
40°-50°	3527.8	15.7
50°-60°	4743.1	21.2
60°-70°	5802.3	25.9
70°-80°	3392.5	15.1
80°-90°	146.6	0.7
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°	22424.2	100.0
0°-180°	22424.2	100.0

Coefficient of Utilization

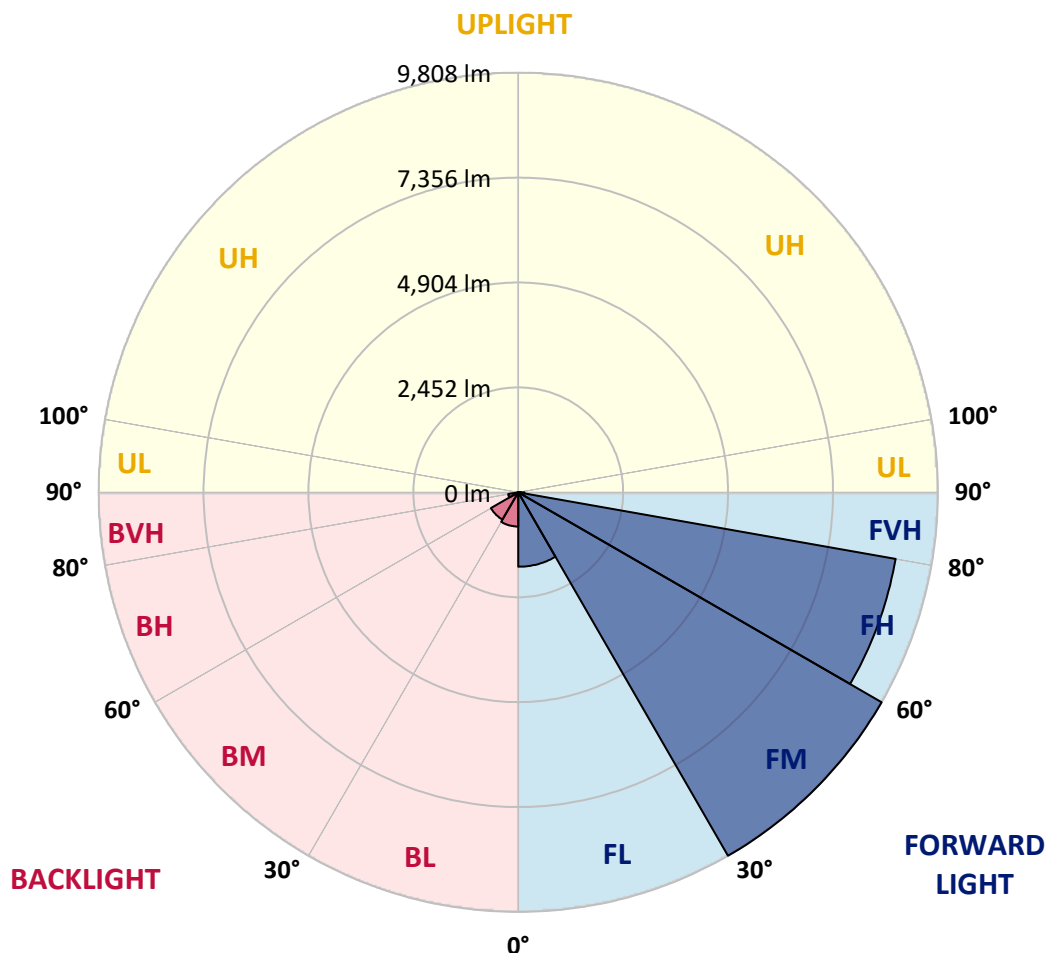


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.8	7.8			
FM (30°-60°)	9807.7	43.7			
FH (60°-80°)	8957.0	39.9			G4/12000
FVH (80°-90°)	144.3	0.6			G2/225
BL (0°-30°)	799.1	3.6	B2/1000		
BM (30°-60°)	736.1	3.3	B1/1000		
BH (60°-80°)	237.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4
 Type III Medium





REPORT NUMBER: P383152

CATALOG NUMBER: GAN-SA4D-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6
2.5°	4197.7	4202.8	4220.8	4228.9	4248.0	4280.3	4296.4	4297.4	4323.6	4333.7	4341.7
5°	3900.7	3930.9	3961.1	3993.4	4051.8	4129.3	4205.8	4212.8	4297.4	4359.8	4393.1
7.5°	3645.0	3672.2	3708.4	3759.7	3842.3	3964.1	4092.0	4107.1	4267.2	4409.2	4483.7
10°	3382.2	3404.2	3456.7	3532.1	3646.0	3809.1	3981.2	4006.4	4240.0	4475.6	4606.5
12.5°	3101.2	3114.3	3177.8	3286.5	3453.6	3661.1	3887.6	3920.8	4222.9	4552.2	4751.5
15°	2887.8	2893.8	2954.2	3067.0	3258.3	3528.1	3815.1	3855.4	4226.9	4643.8	4909.6
17.5°	2833.4	2836.4	2868.6	2946.1	3115.3	3409.4	3757.7	3807.0	4239.0	4733.4	5068.6
20°	3053.9	3032.7	2999.5	2987.5	3059.9	3337.8	3723.5	3778.8	4255.1	4812.9	5211.6
22.5°	3659.0	3596.6	3458.6	3274.4	3162.6	3342.9	3732.5	3788.0	4306.5	4910.6	5376.8
25°	4557.2	4470.6	4236.0	3873.5	3525.2	3487.9	3808.1	3864.4	4406.1	5027.4	5534.9
27.5°	5579.1	5493.6	5206.6	4689.0	4095.0	3774.8	3981.2	4033.6	4554.1	5131.2	5655.7
30°	6557.9	6533.7	6195.4	5607.4	4811.9	4240.0	4204.7	4249.1	4663.9	5193.6	5751.4
32.5°	7387.5	7349.3	7077.4	6505.6	5632.5	4798.9	4467.6	4480.7	4746.5	5274.0	5876.2
35°	8156.8	8109.5	7870.8	7330.2	6474.3	5481.5	4872.4	4853.2	4926.7	5436.2	6057.5
37.5°	8828.4	8871.7	8606.8	8092.4	7229.5	6191.3	5418.1	5360.7	5208.7	5700.0	6320.3
40°	9390.3	9390.3	9252.3	8823.3	8045.0	6925.4	6035.3	5959.8	5632.5	6106.8	6653.5
42.5°	9592.6	9635.9	9687.3	9444.6	8775.1	7688.6	6723.0	6644.4	6229.6	6683.8	7074.4
45°	9604.7	9673.2	9936.0	9935.0	9434.5	8446.8	7498.3	7461.0	6994.9	7424.8	7595.9
47.5°	9434.5	9520.1	9953.1	10198.8	9957.1	9152.6	8346.1	8299.8	7894.0	8333.0	8141.7
50°	9171.7	9266.4	9769.9	10302.5	10312.6	9766.8	9239.2	9169.8	8883.8	9371.1	8705.6
52.5°	8701.5	8884.8	9605.7	10326.7	10546.1	10297.4	10089.0	10058.9	9991.4	10370.9	9154.6
55°	7695.7	7899.1	9193.9	10334.7	10762.6	10767.7	10885.5	10893.5	11029.4	11305.4	9488.9
57.5°	7220.4	7335.2	8475.0	10373.0	11083.8	11301.3	11697.1	11759.5	11969.9	12192.5	9870.5
60°	6921.4	7057.3	8120.6	10320.6	11588.3	12001.1	12449.2	12470.3	12695.9	13107.7	10387.0
62.5°	6682.7	6816.6	7897.0	10119.2	12155.2	12842.9	13184.2	13186.2	13355.4	14198.2	10974.1
65°	6093.7	6206.4	7444.9	9892.7	12529.7	13675.6	14038.0	14025.0	14162.9	15348.0	11655.7
67.5°	5241.9	5328.5	6521.6	9033.8	12388.7	14432.7	15326.8	15283.5	15116.4	16341.9	11923.6
70°	4052.7	4083.9	5140.2	7528.5	11067.7	14723.8	16572.4	16550.2	15701.4	16163.6	10941.9
71°	3349.9	3452.6	4530.0	6644.4	10182.7	14454.9	16693.2	16706.3	15554.4	15678.3	10266.2
72.5°	1945.4	2032.9	3283.4	5102.9	8645.1	13333.2	16067.0	16161.6	14867.7	14260.6	8769.0
75°	416.9	446.0	1217.3	2469.9	4755.6	9344.9	12681.8	13019.1	12117.9	9701.4	5285.1
77.5°	290.0	313.2	521.6	1120.7	1571.8	4617.6	7877.9	8258.5	7239.5	3646.0	1691.6
80°	229.5	255.7	406.8	553.8	424.9	1489.2	3690.2	3922.8	2414.5	813.5	285.0
82.5°	127.9	152.0	317.2	299.0	163.1	282.9	1033.1	1168.0	483.3	164.1	67.4
85°	37.3	45.3	204.4	217.5	69.5	54.4	176.2	218.5	91.7	43.3	30.2
87.5°	0.0	0.0	98.7	83.6	20.1	8.0	16.1	18.2	18.2	18.2	20.1
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°	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6
2.5°	4341.7	4348.7	4323.6	4290.3	4255.1	4211.8	4166.5	4131.2	4130.3	4113.2	4096.0
5°	4395.0	4391.0	4321.5	4215.8	4091.0	3961.1	3837.2	3697.3	3651.0	3593.6	3574.4
7.5°	4493.8	4465.6	4318.6	4087.0	3813.1	3541.2	3260.3	2977.4	2856.6	2747.8	2728.7
10°	4617.6	4564.2	4299.4	3893.7	3391.2	2889.8	2465.9	2081.3	1912.1	1782.2	1776.2
12.5°	4746.5	4664.9	4246.1	3601.6	2838.4	2133.6	1645.3	1266.6	1125.7	1035.0	1043.1
15°	4881.4	4759.6	4131.2	3208.0	2209.1	1447.9	1010.9	788.4	732.0	708.8	714.9
17.5°	5019.4	4825.0	3971.2	2733.7	1587.8	934.4	699.8	637.4	637.4	642.4	644.4
20°	5139.2	4860.3	3735.6	2202.1	1076.4	680.7	612.2	603.1	608.2	616.2	617.2
22.5°	5257.9	4862.3	3428.5	1663.4	753.2	596.1	583.0	579.0	581.9	591.1	592.1
25°	5354.6	4838.1	3043.8	1183.1	601.1	561.8	555.8	553.8	555.8	566.8	566.8
27.5°	5393.9	4750.5	2574.6	831.7	538.7	523.6	521.6	523.6	526.6	534.6	535.6
30°	5397.9	4597.5	2063.1	602.2	488.3	472.2	476.3	483.3	480.3	478.3	480.3
32.5°	5408.0	4420.3	1564.7	495.4	446.0	420.9	415.8	415.8	403.7	396.7	392.6
35°	5441.3	4211.8	1134.7	445.0	402.8	373.6	354.5	332.3	309.1	297.1	294.0
37.5°	5493.6	3993.4	812.6	411.8	364.5	331.3	295.0	255.7	222.5	213.4	213.4
40°	5589.3	3767.7	601.1	385.7	334.3	293.0	238.7	187.2	157.1	152.0	152.0
42.5°	5740.3	3530.2	479.3	362.5	308.1	253.8	182.2	135.9	113.7	110.8	109.7
45°	5897.3	3268.3	418.8	340.3	279.9	208.4	134.9	100.7	87.6	84.6	84.6
47.5°	6054.4	2989.4	389.7	319.1	252.7	162.1	100.7	79.6	73.5	73.5	74.5
50°	6187.3	2698.5	368.5	296.0	217.5	122.9	79.6	67.4	65.5	69.5	70.5
52.5°	6220.6	2412.5	342.3	266.8	174.2	93.6	65.5	59.4	59.4	59.4	59.4
55°	6200.4	2191.0	308.1	230.6	128.9	74.5	56.4	52.4	51.3	51.3	51.3
57.5°	6268.8	2060.1	246.7	179.2	92.6	60.5	49.4	46.3	44.3	43.3	43.3
60°	6406.8	1974.5	176.2	128.9	69.5	50.3	42.3	39.3	36.2	34.2	34.2
62.5°	6590.0	1900.0	130.9	95.7	53.4	40.2	35.2	32.2	28.2	26.2	26.2
65°	6731.1	1767.1	99.7	71.4	40.2	32.2	27.2	26.2	20.1	18.2	17.1
67.5°	6515.6	1475.1	80.6	52.4	30.2	25.2	21.1	20.1	12.1	10.1	10.1
70°	5588.3	1027.0	64.5	38.3	22.2	20.1	17.1	13.1	9.0	8.0	8.0
71°	5067.7	857.9	58.4	32.2	19.1	19.1	16.1	11.1	8.0	7.1	7.1
72.5°	4209.8	609.1	49.4	25.2	17.1	20.1	17.1	10.1	8.0	7.1	6.1
75°	2443.7	254.8	34.2	17.1	13.1	24.1	22.2	9.0	6.1	5.0	5.0
77.5°	735.0	93.6	19.1	11.1	10.1	21.1	25.2	8.0	3.0	1.0	1.0
80°	134.0	40.2	12.1	7.1	7.1	13.1	19.1	4.0	0.0	0.0	0.0
82.5°	47.3	20.1	7.1	4.0	3.0	6.1	9.0	0.0	0.0	0.0	0.0
85°	27.2	14.1	4.0	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
87.5°	18.2	4.0	0.0	0.0	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)