

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: P324873

Luminaire Tested: **GAN-SA9A-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324873
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-SA9A-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA 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: 34105 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

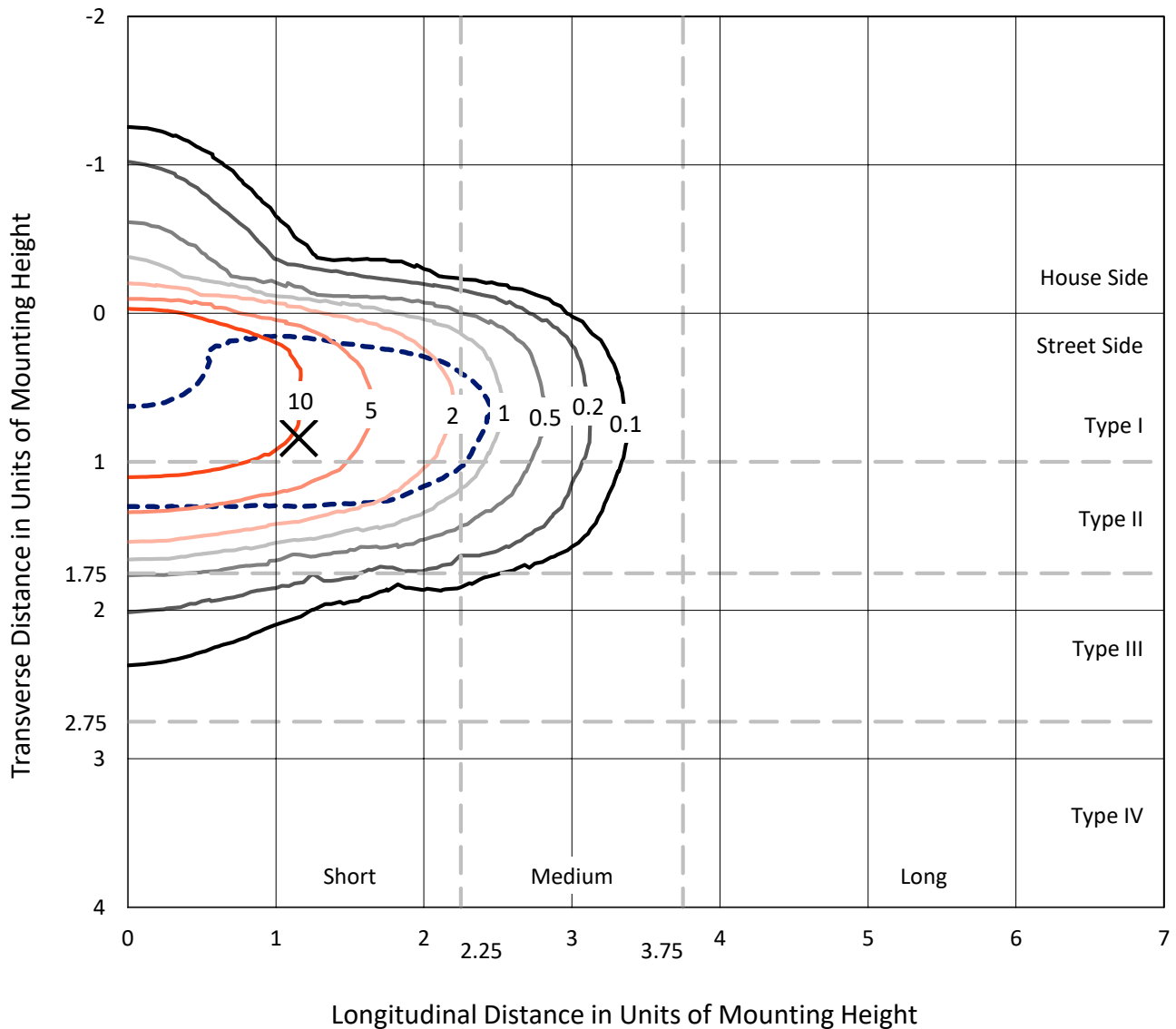
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324873
 CATALOG NUMBER: GAN-SA9A-760-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

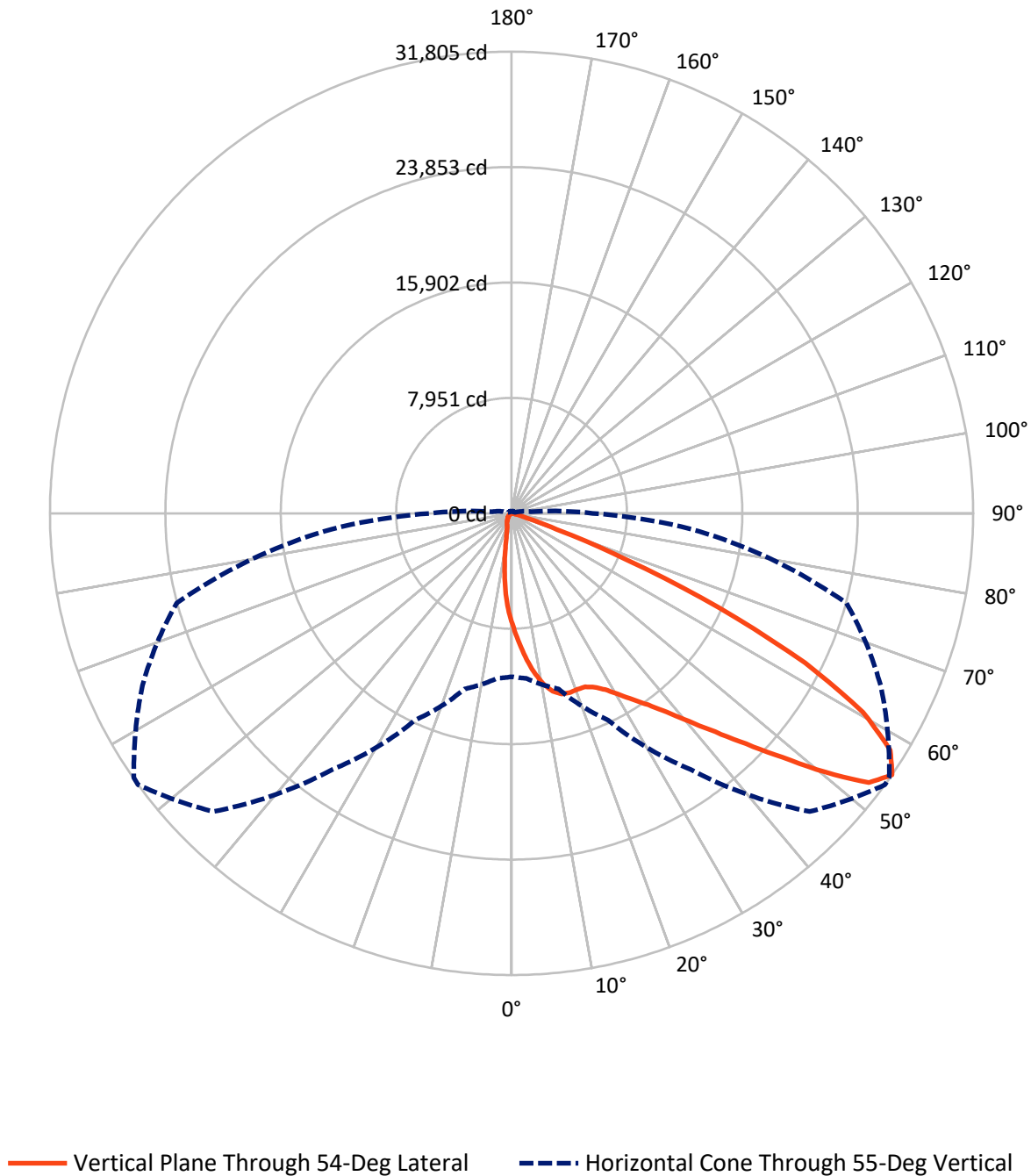
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

REPORT NUMBER: P324873
CATALOG NUMBER: GAN-SA9A-760-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324873

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1701.6	0.0	1701.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32403.4	0.0	32403.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	34105.0	0.0	34105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.4	2.1
10°-20°	1929.1	5.7
20°-30°	3293.5	9.7
30°-40°	5285.6	15.5
40°-50°	8446.4	24.8
50°-60°	9050.5	26.5
60°-70°	4646.8	13.6
70°-80°	703.9	2.1
80°-90°	45.8	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°	34105.0	100.0
0°-180°	34105.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324873

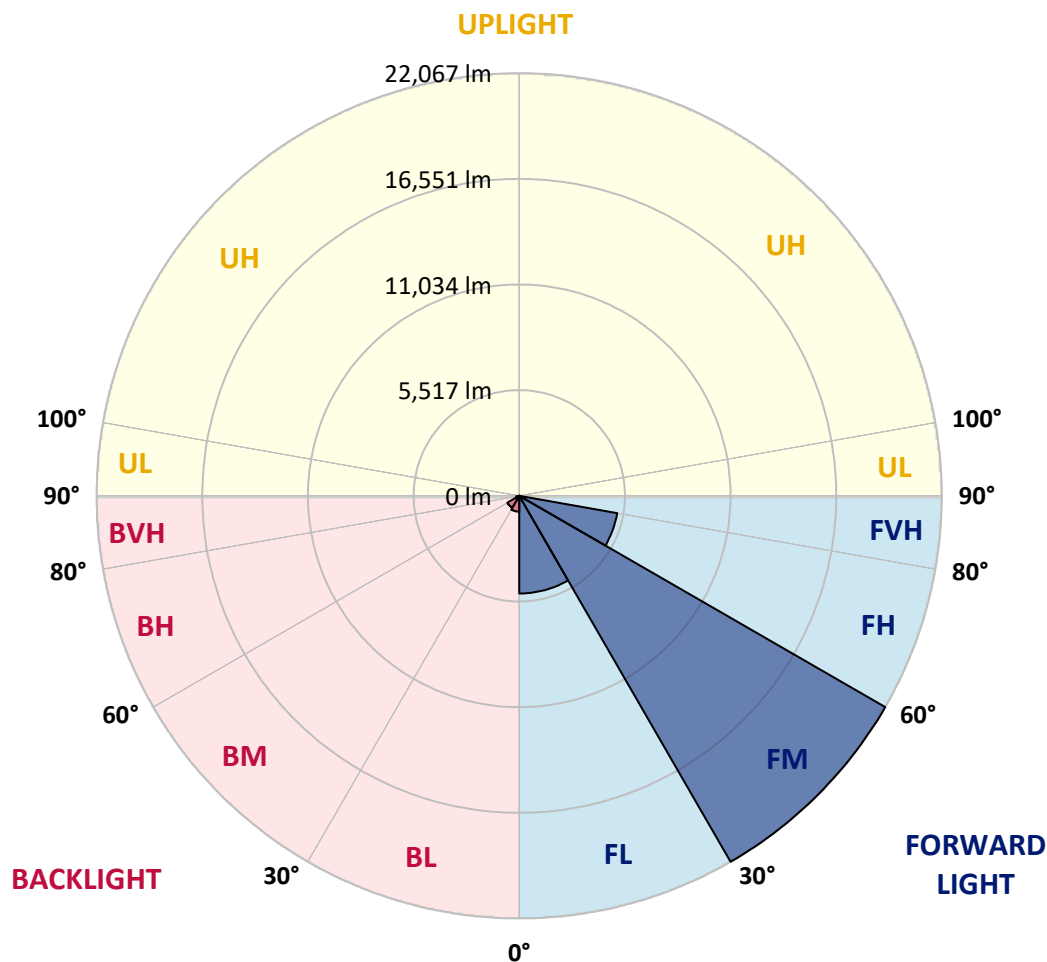
CATALOG NUMBER: GAN-SA9A-760-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5098.1	14.9			
FM	(30°-60°)	22067.4	64.7			
FH	(60°-80°)	5193.9	15.2			G3/7500
FVH	(80°-90°)	44.0	0.1			G1/100
BL	(0°-30°)	827.9	2.4	B2/1000		
BM	(30°-60°)	715.0	2.1	B1/1000		
BH	(60°-80°)	156.8	0.5	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G3

Type II Short





REPORT NUMBER: P324873

CATALOG NUMBER: GAN-SA9A-760-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2
2.5°	9585.2	9442.4	9446.8	9382.0	9144.9	8959.3	8766.3	8720.7	8420.2	8105.0	7801.6
5°	11242.2	11137.6	11112.6	10987.4	10657.5	10308.4	9934.3	9847.4	9259.7	8614.6	7979.9
7.5°	12093.5	12095.0	12074.3	12028.7	11822.5	11483.7	11027.2	10935.8	10136.1	9168.4	8165.4
10°	11846.1	11902.0	12016.9	12168.6	12326.2	12283.5	11940.3	11857.8	10988.9	9754.6	8371.6
12.5°	11268.7	11276.1	11404.2	11653.1	12106.7	12572.2	12578.1	12550.1	11803.3	10367.3	8598.4
15°	10981.5	11009.5	11056.6	11217.2	11647.2	12392.5	12925.6	12965.4	12550.1	11018.3	8840.0
17.5°	11170.0	11209.8	11170.0	11189.2	11438.1	12108.2	12986.0	13087.7	13202.5	11662.0	9068.3
20°	11681.1	11717.9	11647.2	11569.2	11617.8	12025.7	12943.3	13080.3	13713.6	12233.4	9259.7
22.5°	12370.4	12385.1	12277.6	12149.5	12114.1	12305.6	12978.7	13120.1	14123.1	12750.4	9380.5
25°	13128.9	13142.2	13008.1	12860.8	12776.9	12855.0	13268.8	13374.9	14483.9	13243.8	9449.7
27.5°	13955.2	13966.9	13799.0	13617.9	13520.7	13523.6	13747.5	13860.9	14868.3	13806.4	9505.7
30°	14828.6	14822.7	14668.0	14416.2	14292.4	14289.5	14436.8	14551.7	15425.1	14528.1	9582.3
32.5°	15809.5	15797.7	15578.2	15266.0	15126.1	15146.7	15277.8	15344.1	16115.8	15296.9	9719.3
35°	17101.2	17067.3	16735.9	16348.5	16090.8	16083.4	16193.9	16246.9	16996.6	16227.8	9947.6
37.5°	18777.2	18746.3	18297.1	17734.5	17372.2	17236.7	17367.7	17435.5	18252.9	17422.2	10314.3
40°	20429.8	20398.8	20132.3	19616.8	19058.6	18733.1	18836.2	18908.3	19821.5	18871.5	10776.8
42.5°	21569.8	21596.3	21689.1	21731.8	21208.9	20525.5	20572.6	20647.8	21469.6	20420.9	11305.5
45°	21870.2	21927.7	22452.0	23481.5	23677.4	23144.2	22650.8	22692.1	23144.2	21970.4	11834.3
47.5°	20967.4	21073.4	22085.2	23999.9	25658.4	26035.4	25101.6	25047.1	24751.1	23223.8	12209.8
50°	18915.7	19012.9	20323.7	23156.0	26259.3	28795.5	28038.5	27877.9	26160.6	23973.4	12342.4
52.5°	15946.4	16064.3	17129.1	20499.0	25126.7	30026.8	30819.2	30685.2	27194.5	24032.3	12364.5
55°	11261.3	11404.2	12530.9	15710.8	21537.3	29047.4	31804.5	31764.8	28053.2	23876.2	12411.6
57.5°	6328.8	6431.9	7647.0	10071.3	15774.1	25300.5	30775.0	31038.6	28571.6	23605.2	12482.3
60°	2810.2	2838.2	3467.1	5013.5	9234.7	19335.5	27827.8	28272.6	28126.8	23242.9	12601.6
62.5°	1558.3	1534.7	1534.7	2084.1	4013.5	11969.8	22692.1	23427.0	26228.3	22814.3	12607.5
65°	1221.0	1198.9	1135.6	1144.4	1528.8	5312.5	15713.7	17020.1	22622.8	21558.0	12183.3
67.5°	1035.4	1016.3	952.9	927.9	950.0	1752.7	8633.8	9990.3	17166.0	18292.7	10552.9
70°	874.9	861.6	829.2	798.3	742.3	866.0	3303.6	4225.6	10577.9	12168.6	7203.7
72.5°	704.0	698.1	709.9	683.4	615.6	577.4	1129.7	1368.3	4751.4	5430.4	2967.8
75°	606.8	603.9	609.8	583.2	506.7	402.1	574.4	627.4	1340.3	1328.5	600.9
77.5°	394.7	399.1	505.2	493.4	436.0	268.1	297.5	321.1	406.5	304.9	182.6
80°	251.9	248.9	256.3	409.4	391.8	204.7	148.8	156.1	195.9	150.2	88.4
82.5°	153.2	150.2	167.9	191.5	197.4	142.9	91.3	92.8	122.2	97.2	47.1
85°	13.3	17.7	101.6	94.3	67.8	44.2	44.2	47.1	64.8	57.4	26.5
87.5°	0.0	0.0	17.7	26.5	14.7	16.2	16.2	17.7	25.0	25.0	13.3
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: P324873

CATALOG NUMBER: GAN-SA9A-760-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2
2.5°	7644.0	7490.9	7181.6	6884.1	6632.2	6389.2	6112.3	5838.3	5710.2	5658.7	5605.6
5°	7657.3	7342.1	6704.4	6062.2	5396.5	4797.0	4286.0	3761.6	3499.5	3384.6	3331.6
7.5°	7675.0	7194.8	6163.8	5085.7	4013.5	3200.5	2490.6	2034.0	1836.6	1805.7	1729.1
10°	7677.9	7016.6	5536.4	4007.6	2690.9	1929.4	1484.6	1249.0	1162.1	1147.3	1122.3
12.5°	7683.8	6806.0	4839.8	2967.8	1793.9	1290.2	1073.7	995.6	972.1	970.6	970.6
15°	7701.5	6585.1	4116.6	2138.6	1288.7	1022.2	942.6	911.7	902.9	907.3	905.8
17.5°	7701.5	6324.4	3406.7	1593.6	1041.3	919.1	874.9	854.2	851.3	855.7	857.2
20°	7645.5	6007.7	2755.7	1240.1	923.5	852.8	813.0	793.9	786.5	789.4	790.9
22.5°	7511.5	5618.9	2225.5	1026.6	845.4	792.4	749.7	720.2	708.4	709.9	709.9
25°	7302.3	5157.9	1740.9	888.1	782.1	727.6	677.5	643.6	636.3	634.8	637.7
27.5°	7034.3	4648.3	1385.9	782.1	707.0	655.4	605.3	577.4	571.5	572.9	574.4
30°	6770.6	4119.5	1092.8	692.2	623.0	574.4	536.1	522.9	522.9	527.3	528.7
32.5°	6529.1	3611.4	864.6	614.2	547.9	503.7	481.6	480.1	487.5	490.5	491.9
35°	6321.4	3141.6	715.8	553.8	489.0	450.7	443.3	449.2	458.1	463.9	465.4
37.5°	6174.1	2721.8	626.0	503.7	443.3	412.4	410.9	422.7	434.5	447.7	450.7
40°	6112.3	2366.9	564.1	459.5	406.5	382.9	378.5	394.7	416.8	436.0	438.9
42.5°	6060.7	2076.7	511.1	416.8	377.0	343.2	341.7	362.3	388.8	408.0	412.4
45°	6016.6	1844.0	462.5	371.2	338.8	294.6	299.0	325.5	346.1	366.7	371.2
47.5°	5925.2	1652.5	409.4	322.6	279.8	251.9	260.7	284.3	300.5	331.4	335.8
50°	5761.8	1496.4	355.0	263.6	228.3	218.0	231.2	247.4	268.1	294.6	297.5
52.5°	5651.3	1378.6	307.8	220.9	188.5	191.5	204.7	210.6	222.4	232.7	229.8
55°	5588.0	1313.8	269.5	191.5	160.5	169.4	172.3	165.0	159.1	148.8	144.3
57.5°	5580.6	1254.9	240.1	166.4	141.4	145.8	135.5	110.5	89.8	78.1	75.1
60°	5568.8	1182.7	216.5	139.9	125.2	119.3	97.2	60.4	42.7	39.8	39.8
62.5°	5440.7	1070.8	198.8	117.8	106.0	89.8	56.0	28.0	23.6	25.0	25.0
65°	5032.7	914.6	181.2	95.7	84.0	64.8	28.0	16.2	8.8	10.3	10.3
67.5°	4278.6	729.1	162.0	73.6	63.3	41.2	16.2	7.4	0.0	0.0	0.0
70°	2864.7	452.2	137.0	51.5	41.2	25.0	11.8	1.5	0.0	0.0	0.0
72.5°	1098.7	244.5	110.5	30.9	26.5	17.7	7.4	0.0	0.0	0.0	0.0
75°	247.4	160.5	76.6	22.1	19.1	11.8	2.9	0.0	0.0	0.0	0.0
77.5°	94.3	116.4	44.2	14.7	13.3	7.4	0.0	0.0	0.0	0.0	0.0
80°	45.7	69.2	20.6	8.8	7.4	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	23.6	26.5	8.8	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	13.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	4.4	1.5	1.5	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)