

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: P324712

Luminaire Tested: **GAN-SA8A-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324712
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-SA8A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 25568 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

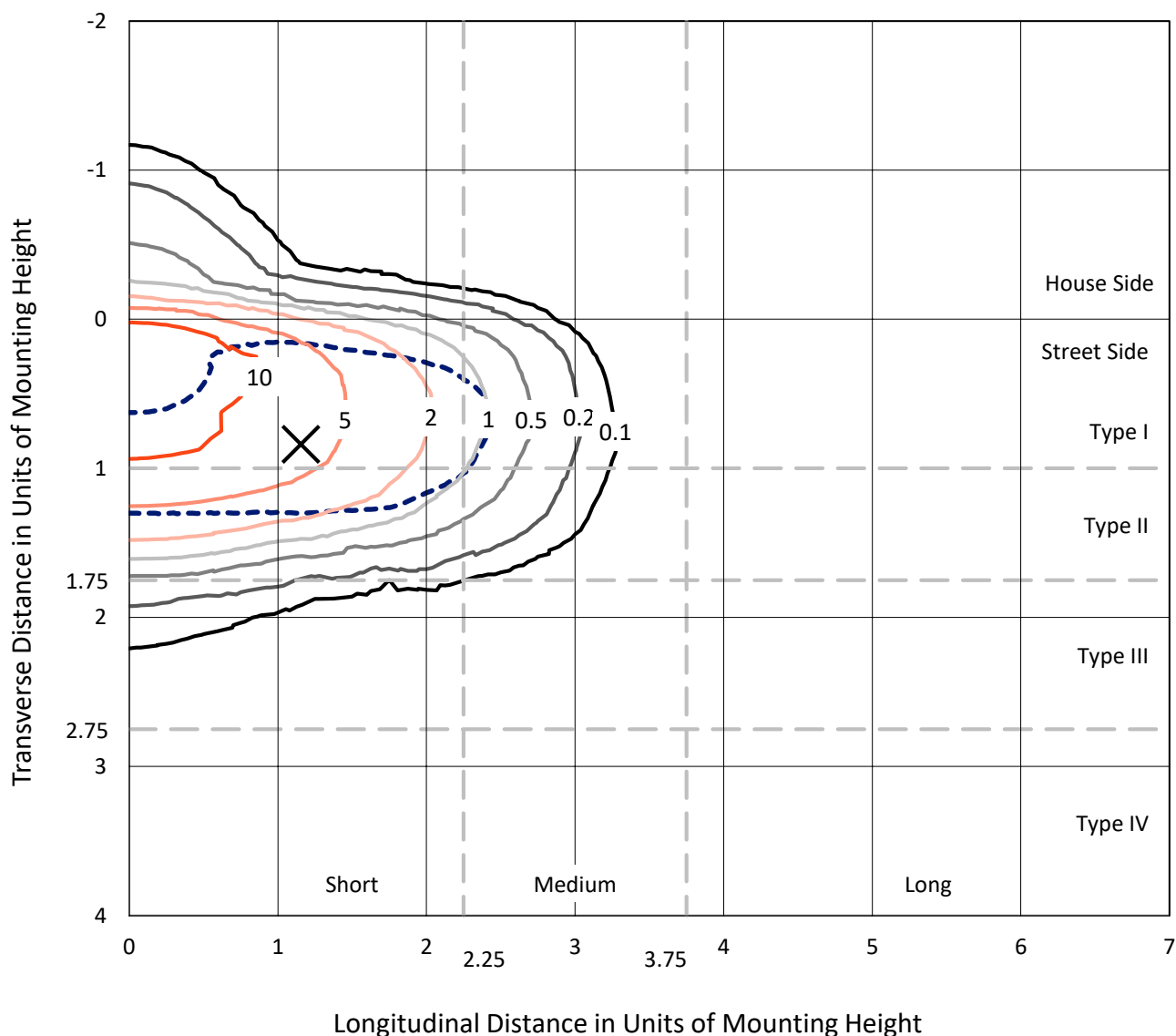
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

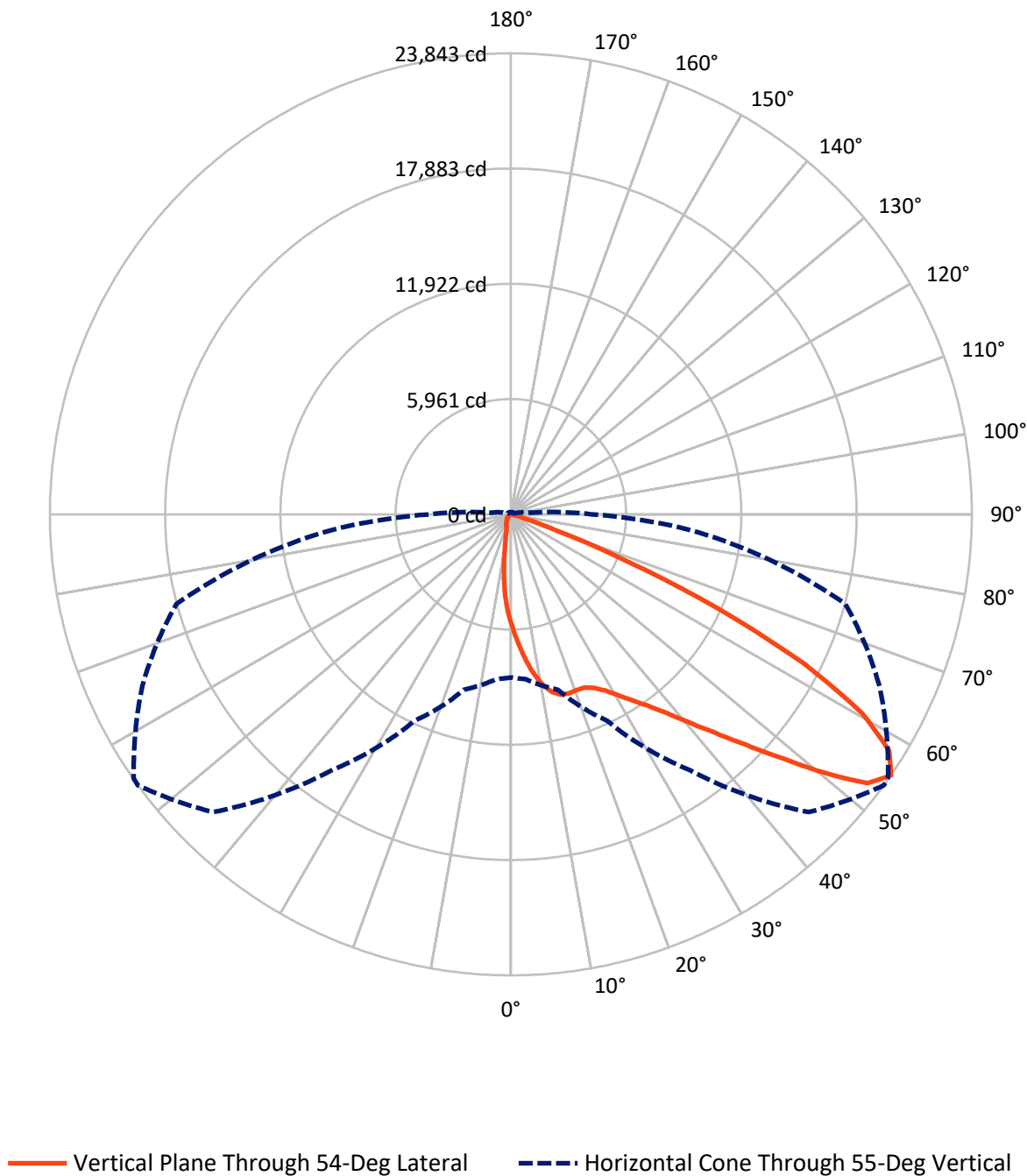
× Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1275.6	0.0	1275.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	24292.3	0.0	24292.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	25568.0	0.0	25568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.3	2.1
10°-20°	1446.2	5.7
20°-30°	2469.1	9.7
30°-40°	3962.5	15.5
40°-50°	6332.1	24.8
50°-60°	6785.0	26.5
60°-70°	3483.6	13.6
70°-80°	527.7	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°	25568.0	100.0
0°-180°	25568.0	100.0

Coefficient of Utilization



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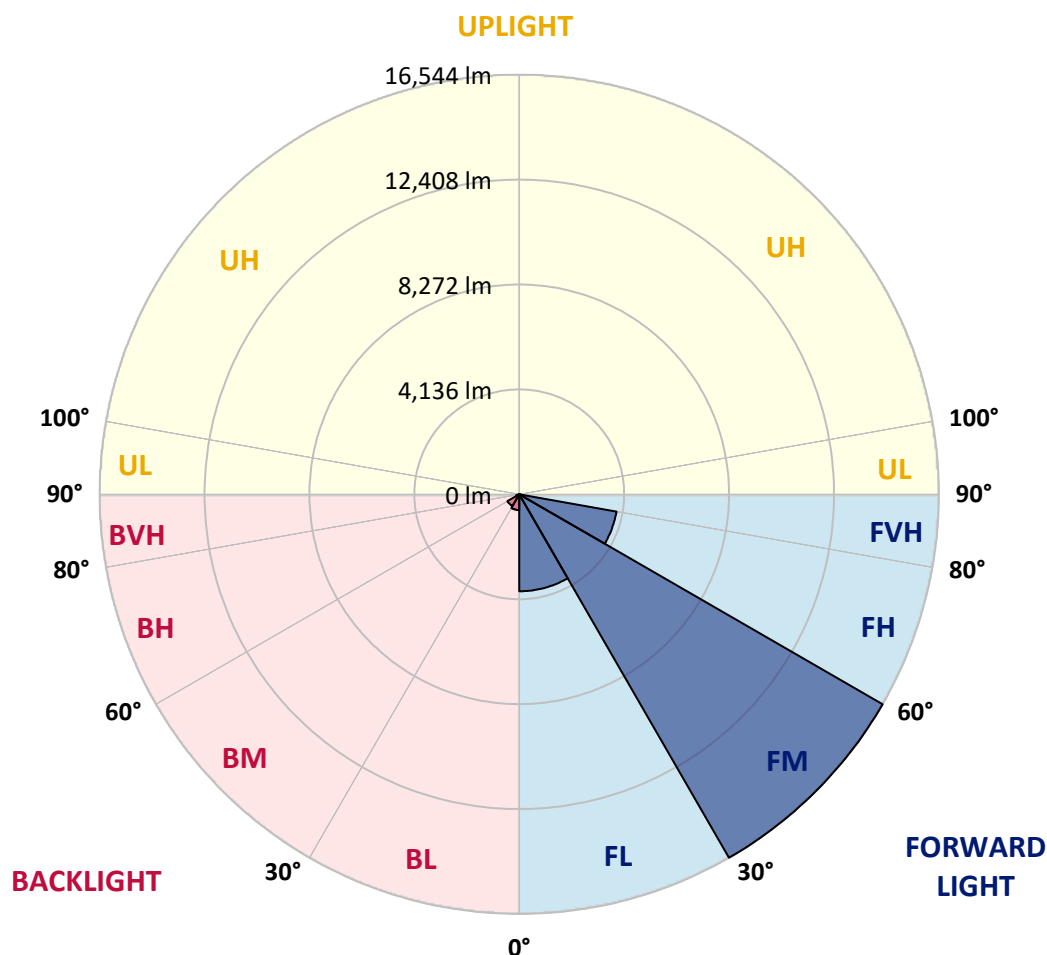
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3822.0	14.9			
FM	(30°-60°)	16543.6	64.7			
FH	(60°-80°)	3893.8	15.2			G2/5000
FVH	(80°-90°)	33.0	0.1			G1/100
BL	(0°-30°)	620.7	2.4	B2/1000		
BM	(30°-60°)	536.1	2.1	B1/1000		
BH	(60°-80°)	117.6	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°	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2
2.5°	7185.9	7078.8	7082.1	7033.5	6855.8	6716.6	6572.0	6537.8	6312.5	6076.2	5848.8
5°	8428.1	8349.7	8330.9	8237.1	7989.7	7728.1	7447.6	7382.5	6941.9	6458.3	5982.4
7.5°	9066.3	9067.4	9052.0	9017.7	8863.1	8609.2	8266.9	8198.4	7598.9	6873.4	6121.5
10°	8880.8	8922.8	9008.9	9122.6	9240.8	9208.7	8951.5	8889.6	8238.2	7312.9	6276.1
12.5°	8448.0	8453.5	8549.6	8736.2	9076.2	9425.2	9429.6	9408.6	8848.8	7772.2	6446.1
15°	8232.7	8253.6	8289.0	8409.3	8731.7	9290.5	9690.2	9720.0	9408.6	8260.3	6627.2
17.5°	8374.0	8403.8	8374.0	8388.4	8575.0	9077.4	9735.4	9811.6	9897.7	8742.8	6798.4
20°	8757.1	8784.7	8731.7	8673.2	8709.7	9015.5	9703.4	9806.1	10280.9	9171.2	6941.9
22.5°	9273.9	9284.9	9204.3	9108.3	9081.8	9225.3	9729.9	9835.9	10587.8	9558.8	7032.4
25°	9842.5	9852.5	9752.0	9641.6	9578.6	9637.2	9947.4	10026.9	10858.4	9928.7	7084.3
27.5°	10462.0	10470.8	10344.9	10209.1	10136.2	10138.5	10306.3	10391.3	11146.6	10350.5	7126.3
30°	11116.7	11112.3	10996.4	10807.6	10714.8	10712.6	10823.0	10909.2	11563.9	10891.5	7183.7
32.5°	11852.1	11843.3	11678.8	11444.7	11339.8	11355.2	11453.5	11503.2	12081.8	11467.9	7286.4
35°	12820.5	12795.1	12546.6	12256.2	12063.0	12057.5	12140.3	12180.1	12742.1	12165.7	7457.5
37.5°	14077.0	14053.8	13717.1	13295.3	13023.6	12922.1	13020.3	13071.1	13683.9	13061.2	7732.5
40°	15315.9	15292.7	15092.8	14706.4	14287.9	14043.9	14121.2	14175.3	14859.9	14147.7	8079.2
42.5°	16170.5	16190.4	16260.0	16292.0	15900.0	15387.7	15423.0	15479.3	16095.4	15309.3	8475.6
45°	16395.8	16438.8	16831.9	17603.7	17750.6	17350.9	16981.0	17011.9	17350.9	16470.8	8872.0
47.5°	15718.9	15798.4	16557.0	17992.4	19235.7	19518.3	18818.3	18777.5	18555.5	17410.5	9153.5
50°	14180.8	14253.7	15236.4	17359.7	19686.2	21587.6	21020.0	20899.7	19612.2	17972.5	9252.9
52.5°	11954.8	12043.1	12841.5	15367.8	18837.1	22510.6	23104.7	23004.2	20387.3	18016.7	9269.5
55°	8442.5	8549.6	9394.2	11778.1	16146.2	21776.4	23843.4	23813.6	21031.1	17899.6	9304.8
57.5°	4744.6	4821.9	5732.8	7550.3	11825.6	18967.4	23071.6	23269.2	21419.7	17696.5	9357.8
60°	2106.7	2127.7	2599.2	3758.6	6923.1	14495.5	20862.1	21195.6	21086.3	17424.8	9447.2
62.5°	1168.2	1150.5	1150.5	1562.4	3008.9	8973.6	17011.9	17562.9	19663.0	17103.5	9451.7
65°	915.4	898.8	851.3	857.9	1146.1	3982.7	11780.3	12759.7	16960.0	16161.7	9133.7
67.5°	776.2	761.9	714.4	695.6	712.2	1314.0	6472.6	7489.6	12869.1	13713.7	7911.4
70°	655.9	645.9	621.6	598.5	556.5	649.2	2476.6	3167.9	7930.1	9122.6	5400.5
72.5°	527.8	523.4	532.2	512.3	461.5	432.8	846.9	1025.8	3562.0	4071.1	2224.9
75°	454.9	452.7	457.1	437.2	379.8	301.4	430.6	470.4	1004.8	996.0	450.5
77.5°	295.9	299.2	378.7	369.9	326.8	201.0	223.0	240.7	304.7	228.6	136.9
80°	188.8	186.6	192.1	307.0	293.7	153.5	111.5	117.0	146.9	112.6	66.2
82.5°	114.8	112.6	125.9	143.5	148.0	107.1	68.5	69.6	91.6	72.9	35.3
85°	9.9	13.2	76.2	70.7	50.8	33.1	33.1	35.3	48.6	43.1	19.9
87.5°	0.0	0.0	13.2	19.9	11.0	12.1	12.1	13.2	18.8	18.8	9.9
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°	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2	5726.2
2.5°	5730.6	5615.8	5383.9	5160.9	4972.1	4789.9	4582.3	4376.9	4280.9	4242.2	4202.5
5°	5740.6	5504.3	5026.2	4544.7	4045.7	3596.3	3213.1	2820.0	2623.5	2537.4	2497.6
7.5°	5753.8	5393.9	4620.9	3812.7	3008.9	2399.4	1867.1	1524.9	1376.9	1353.7	1296.3
10°	5756.0	5260.2	4150.6	3004.4	2017.3	1446.5	1113.0	936.3	871.2	860.1	841.4
12.5°	5760.4	5102.4	3628.3	2224.9	1344.9	967.2	804.9	746.4	728.7	727.6	727.6
15°	5773.7	4936.7	3086.1	1603.2	966.1	766.3	706.7	683.5	676.9	680.2	679.1
17.5°	5773.7	4741.3	2553.9	1194.7	780.6	689.0	655.9	640.4	638.2	641.5	642.6
20°	5731.7	4503.9	2065.9	929.7	692.3	639.3	609.5	595.1	589.6	591.8	592.9
22.5°	5631.2	4212.4	1668.4	769.6	633.8	594.0	562.0	539.9	531.1	532.2	532.2
25°	5474.5	3866.8	1305.1	665.8	586.3	545.5	507.9	482.5	477.0	475.9	478.1
27.5°	5273.5	3484.7	1039.0	586.3	530.0	491.4	453.8	432.8	428.4	429.5	430.6
30°	5075.9	3088.4	819.3	519.0	467.1	430.6	401.9	392.0	392.0	395.3	396.4
32.5°	4894.8	2707.4	648.1	460.4	410.7	377.6	361.1	360.0	365.5	367.7	368.8
35°	4739.1	2355.2	536.6	415.2	366.6	337.9	332.4	336.8	343.4	347.8	348.9
37.5°	4628.7	2040.5	469.3	377.6	332.4	309.2	308.1	316.9	325.7	335.7	337.9
40°	4582.3	1774.4	422.9	344.5	304.7	287.1	283.8	295.9	312.5	326.8	329.0
42.5°	4543.6	1556.9	383.1	312.5	282.7	257.3	256.2	271.6	291.5	305.9	309.2
45°	4510.5	1382.4	346.7	278.2	254.0	220.8	224.1	244.0	259.5	274.9	278.2
47.5°	4442.1	1238.9	307.0	241.8	209.8	188.8	195.4	213.1	225.2	248.4	251.7
50°	4319.5	1121.8	266.1	197.6	171.1	163.4	173.4	185.5	201.0	220.8	223.0
52.5°	4236.7	1033.5	230.8	165.6	141.3	143.5	153.5	157.9	166.7	174.5	172.2
55°	4189.2	984.9	202.1	143.5	120.4	127.0	129.2	123.7	119.2	111.5	108.2
57.5°	4183.7	940.7	180.0	124.8	106.0	109.3	101.6	82.8	67.4	58.5	56.3
60°	4174.9	886.6	162.3	104.9	93.9	89.4	72.9	45.3	32.0	29.8	29.8
62.5°	4078.8	802.7	149.1	88.3	79.5	67.4	42.0	21.0	17.7	18.8	18.8
65°	3772.9	685.7	135.8	71.8	62.9	48.6	21.0	12.1	6.6	7.7	7.7
67.5°	3207.6	546.6	121.5	55.2	47.5	30.9	12.1	5.5	0.0	0.0	0.0
70°	2147.6	339.0	102.7	38.6	30.9	18.8	8.8	1.1	0.0	0.0	0.0
72.5°	823.7	183.3	82.8	23.2	19.9	13.2	5.5	0.0	0.0	0.0	0.0
75°	185.5	120.4	57.4	16.6	14.4	8.8	2.2	0.0	0.0	0.0	0.0
77.5°	70.7	87.2	33.1	11.0	9.9	5.5	0.0	0.0	0.0	0.0	0.0
80°	34.2	51.9	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°	9.9	9.9	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)