

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: P324914

Luminaire Tested: **GAN-SA0A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324914
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-SA0A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 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: 27757 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

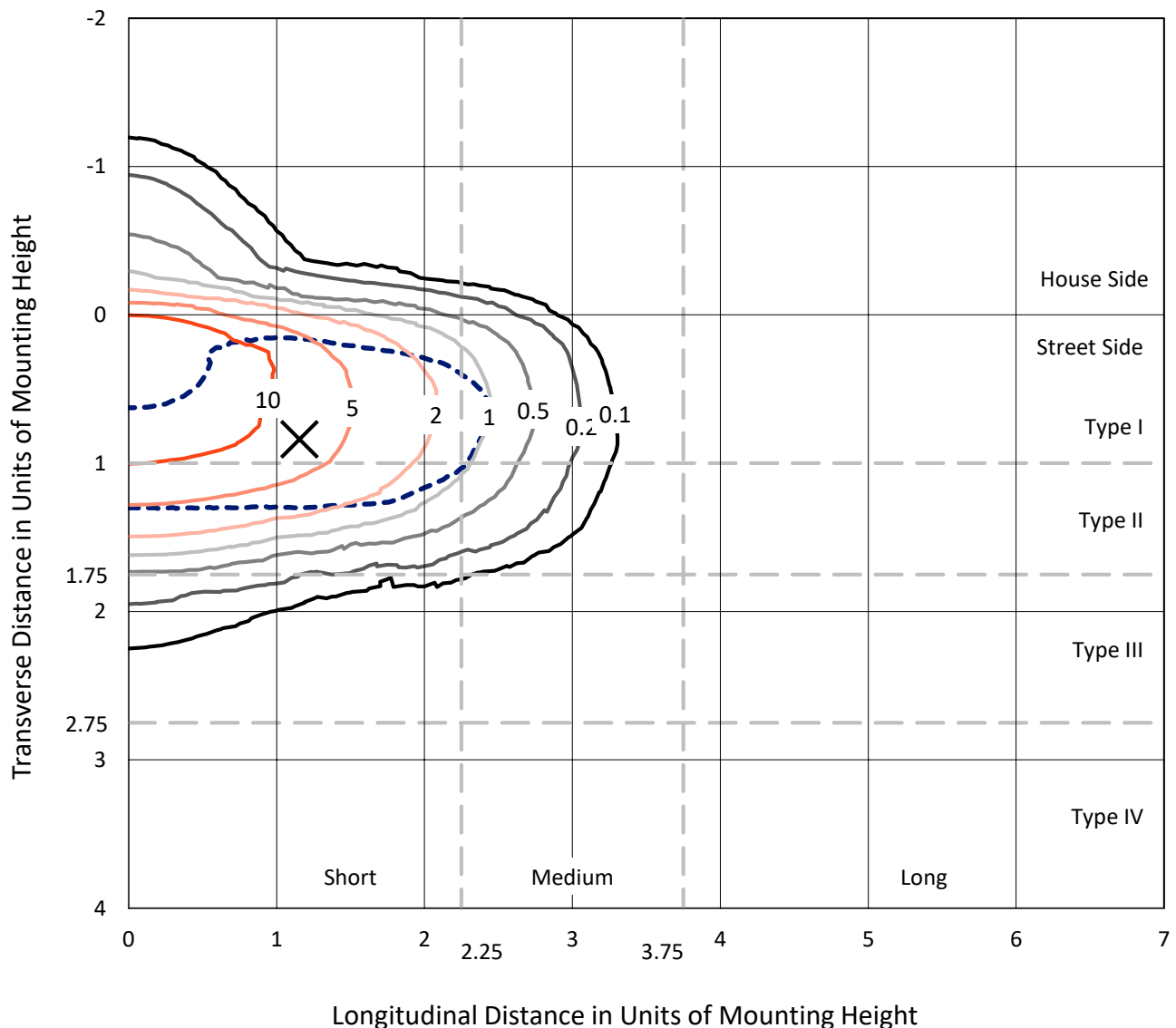
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

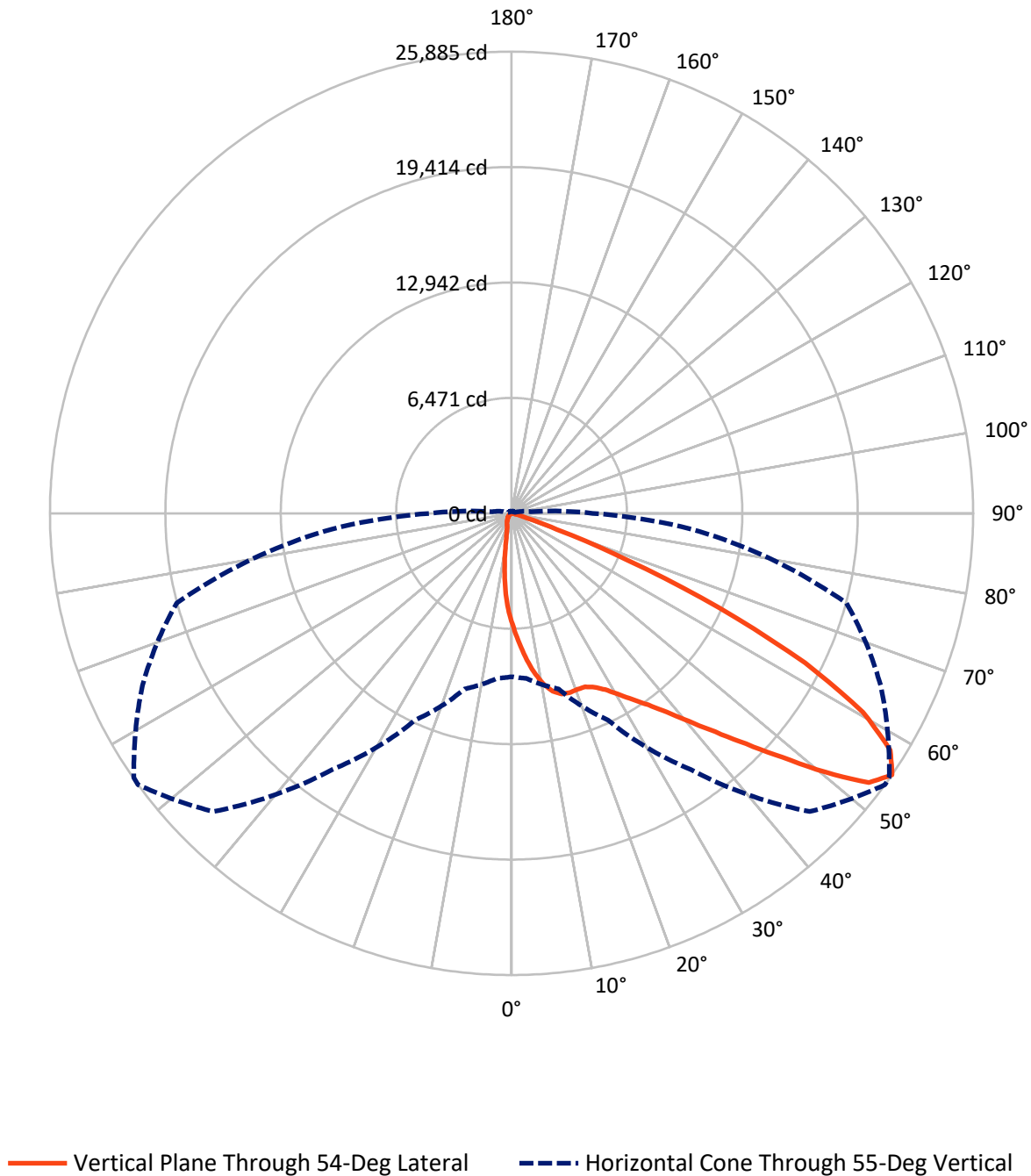
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	1384.9	0.0	1384.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	26372.1	0.0	26372.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	27757.0	0.0	27757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.5	2.1
10°-20°	1570.0	5.7
20°-30°	2680.5	9.7
30°-40°	4301.8	15.5
40°-50°	6874.3	24.8
50°-60°	7365.9	26.5
60°-70°	3781.9	13.6
70°-80°	572.9	2.1
80°-90°	37.3	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°	27757.0	100.0
0°-180°	27757.0	100.0

Coefficient of Utilization



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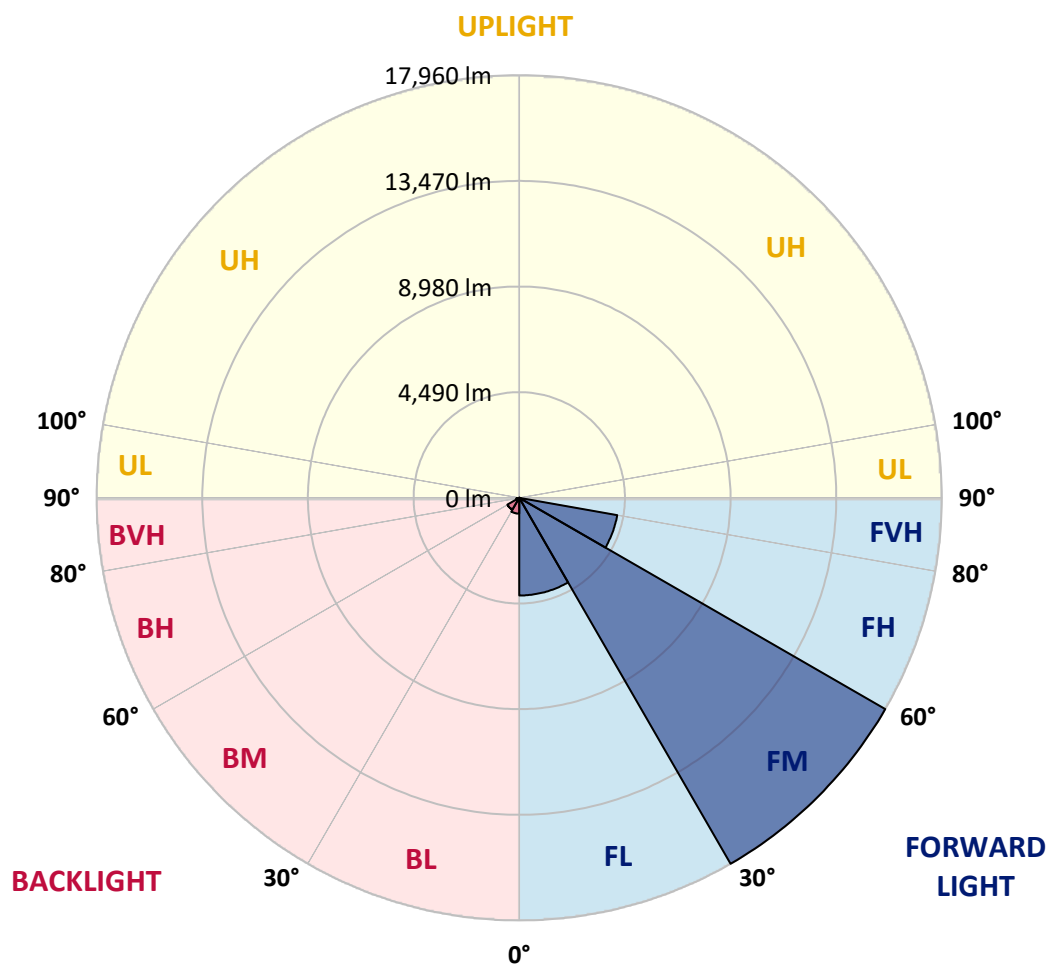
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4149.2	14.9			
FM	(30°-60°)	17960.0	64.7			
FH	(60°-80°)	4227.1	15.2			G2/5000
FVH	(80°-90°)	35.8	0.1			G1/100
BL	(0°-30°)	673.8	2.4	B2/1000		
BM	(30°-60°)	582.0	2.1	B1/1000		
BH	(60°-80°)	127.6	0.5	B1/500		G1/500
BVH	(80°-90°)	1.5	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°	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5
2.5°	7801.1	7684.9	7688.5	7635.7	7442.7	7291.7	7134.7	7097.5	6853.0	6596.4	6349.5
5°	9149.7	9064.6	9044.2	8942.3	8673.8	8389.7	8085.2	8014.5	7536.2	7011.2	6494.6
7.5°	9842.5	9843.7	9826.9	9789.8	9622.0	9346.3	8974.7	8900.3	8249.4	7461.9	6645.6
10°	9641.1	9686.7	9780.2	9903.7	10031.9	9997.2	9717.9	9650.7	8943.5	7939.0	6813.4
12.5°	9171.2	9177.2	9281.5	9484.1	9853.3	10232.1	10236.9	10214.1	9606.4	8437.6	6998.0
15°	8937.5	8960.3	8998.6	9129.3	9479.3	10085.9	10519.8	10552.1	10214.1	8967.5	7194.6
17.5°	9090.9	9123.3	9090.9	9106.5	9309.1	9854.5	10568.9	10651.6	10745.1	9491.3	7380.4
20°	9506.9	9536.9	9479.3	9415.8	9455.3	9787.4	10534.2	10645.6	11161.1	9956.4	7536.2
22.5°	10067.9	10079.9	9992.4	9888.1	9859.3	10015.1	10562.9	10678.0	11494.3	10377.1	7634.5
25°	10685.2	10696.0	10586.9	10467.0	10398.7	10462.2	10799.1	10885.4	11788.0	10778.7	7690.9
27.5°	11357.7	11367.3	11230.6	11083.2	11004.1	11006.5	11188.7	11281.0	12100.9	11236.6	7736.4
30°	12068.5	12063.7	11937.8	11732.9	11632.2	11629.8	11749.6	11843.1	12554.0	11824.0	7798.7
32.5°	12866.8	12857.2	12678.6	12424.5	12310.6	12327.4	12434.1	12488.0	13116.2	12449.7	7910.2
35°	13918.1	13890.5	13620.8	13305.6	13095.8	13089.8	13179.7	13222.9	13833.0	13207.3	8096.0
37.5°	15282.2	15257.0	14891.4	14433.5	14138.7	14028.4	14135.1	14190.2	14855.5	14179.4	8394.5
40°	16627.2	16602.0	16385.0	15965.5	15511.2	15246.3	15330.2	15388.9	16132.1	15358.9	8770.9
42.5°	17554.9	17576.5	17652.0	17686.8	17261.3	16705.1	16743.4	16804.6	17473.4	16620.0	9201.2
45°	17799.5	17846.2	18273.0	19110.9	19270.3	18836.4	18434.8	18468.4	18836.4	17881.0	9631.5
47.5°	17064.7	17151.0	17974.5	19532.8	20882.5	21189.4	20429.4	20385.1	20144.1	18901.1	9937.2
50°	15394.9	15474.0	16540.9	18845.9	21371.6	23435.8	22819.6	22689.0	21291.3	19511.2	10045.1
52.5°	12978.3	13074.2	13940.9	16683.5	20449.8	24437.9	25082.8	24973.7	22132.8	19559.2	10063.1
55°	9165.3	9281.5	10198.5	12786.5	17528.6	23640.7	25884.7	25852.3	22831.6	19432.1	10101.4
57.5°	5150.8	5234.7	6223.6	8196.7	12838.1	20591.3	25046.8	25261.4	23253.6	19211.6	10159.0
60°	2287.1	2309.9	2821.7	4080.4	7515.8	15736.5	22648.2	23010.2	22891.6	18916.7	10256.1
62.5°	1268.2	1249.0	1249.0	1696.2	3266.5	9741.8	18468.4	19066.5	21346.4	18567.9	10260.9
65°	993.7	975.7	924.2	931.4	1244.2	4323.7	12788.9	13852.2	18412.0	17545.4	9915.6
67.5°	842.7	827.1	775.6	755.2	773.2	1426.5	7026.8	8130.8	13970.8	14887.8	8588.7
70°	712.0	701.2	674.9	649.7	604.1	704.8	2688.7	3439.1	8609.1	9903.7	5862.8
72.5°	573.0	568.2	577.8	556.2	501.1	469.9	919.4	1113.6	3867.0	4419.6	2415.4
75°	493.9	491.5	496.3	474.7	412.4	327.2	467.5	510.6	1090.8	1081.2	489.1
77.5°	321.3	324.8	411.2	401.6	354.8	218.2	242.1	261.3	330.8	248.1	148.6
80°	205.0	202.6	208.6	333.2	318.9	166.6	121.1	127.1	159.4	122.3	71.9
82.5°	124.7	122.3	136.7	155.8	160.6	116.3	74.3	75.5	99.5	79.1	38.4
85°	10.8	14.4	82.7	76.7	55.1	36.0	36.0	38.4	52.7	46.7	21.6
87.5°	0.0	0.0	14.4	21.6	12.0	13.2	13.2	14.4	20.4	20.4	10.8
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°	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5	6216.5
2.5°	6221.2	6096.6	5844.9	5602.7	5397.7	5200.0	4974.6	4751.6	4647.4	4605.4	4562.2
5°	6232.0	5975.5	5456.5	4933.8	4392.0	3904.2	3488.2	3061.5	2848.1	2754.6	2711.5
7.5°	6246.4	5855.6	5016.6	4139.1	3266.5	2604.8	2027.0	1655.4	1494.8	1469.6	1407.3
10°	6248.8	5710.6	4505.9	3261.7	2190.0	1570.3	1208.3	1016.5	945.8	933.8	913.4
12.5°	6253.6	5539.2	3938.9	2415.4	1460.0	1050.1	873.9	810.3	791.1	789.9	789.9
15°	6268.0	5359.4	3350.4	1740.5	1048.9	831.9	767.2	742.0	734.8	738.4	737.2
17.5°	6268.0	5147.2	2772.6	1297.0	847.5	748.0	712.0	695.2	692.8	696.4	697.6
20°	6222.4	4889.5	2242.8	1009.3	751.6	694.0	661.7	646.1	640.1	642.5	643.7
22.5°	6113.4	4573.0	1811.2	835.5	688.1	644.9	610.1	586.2	576.6	577.8	577.8
25°	5943.2	4197.8	1416.9	722.8	636.5	592.2	551.4	523.8	517.8	516.6	519.0
27.5°	5725.0	3783.1	1128.0	636.5	575.4	533.4	492.7	469.9	465.1	466.3	467.5
30°	5510.4	3352.8	889.4	563.4	507.0	467.5	436.3	425.5	425.5	429.1	430.3
32.5°	5313.8	2939.2	703.6	499.9	445.9	410.0	392.0	390.8	396.8	399.2	400.4
35°	5144.8	2556.8	582.6	450.7	398.0	366.8	360.8	365.6	372.8	377.6	378.8
37.5°	5024.9	2215.2	509.4	410.0	360.8	335.6	334.4	344.0	353.6	364.4	366.8
40°	4974.6	1926.3	459.1	374.0	330.8	311.7	308.1	321.3	339.2	354.8	357.2
42.5°	4932.6	1690.2	415.9	339.2	306.9	279.3	278.1	294.9	316.5	332.0	335.6
45°	4896.7	1500.8	376.4	302.1	275.7	239.7	243.3	264.9	281.7	298.5	302.1
47.5°	4822.4	1344.9	333.2	262.5	227.8	205.0	212.2	231.3	244.5	269.7	273.3
50°	4689.3	1217.9	288.9	214.6	185.8	177.4	188.2	201.4	218.2	239.7	242.1
52.5°	4599.4	1122.0	250.5	179.8	153.4	155.8	166.6	171.4	181.0	189.4	187.0
55°	4547.9	1069.2	219.4	155.8	130.7	137.9	140.2	134.3	129.5	121.1	117.5
57.5°	4541.9	1021.3	195.4	135.5	115.1	118.7	110.3	89.9	73.1	63.5	61.1
60°	4532.3	962.6	176.2	113.9	101.9	97.1	79.1	49.1	34.8	32.4	32.4
62.5°	4428.0	871.5	161.8	95.9	86.3	73.1	45.6	22.8	19.2	20.4	20.4
65°	4096.0	744.4	147.4	77.9	68.3	52.7	22.8	13.2	7.2	8.4	8.4
67.5°	3482.2	593.4	131.9	59.9	51.5	33.6	13.2	6.0	0.0	0.0	0.0
70°	2331.5	368.0	111.5	42.0	33.6	20.4	9.6	1.2	0.0	0.0	0.0
72.5°	894.2	199.0	89.9	25.2	21.6	14.4	6.0	0.0	0.0	0.0	0.0
75°	201.4	130.7	62.3	18.0	15.6	9.6	2.4	0.0	0.0	0.0	0.0
77.5°	76.7	94.7	36.0	12.0	10.8	6.0	0.0	0.0	0.0	0.0	0.0
80°	37.2	56.3	16.8	7.2	6.0	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	19.2	21.6	7.2	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	10.8	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.6	1.2	1.2	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)