

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: P192985

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL4-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31261.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

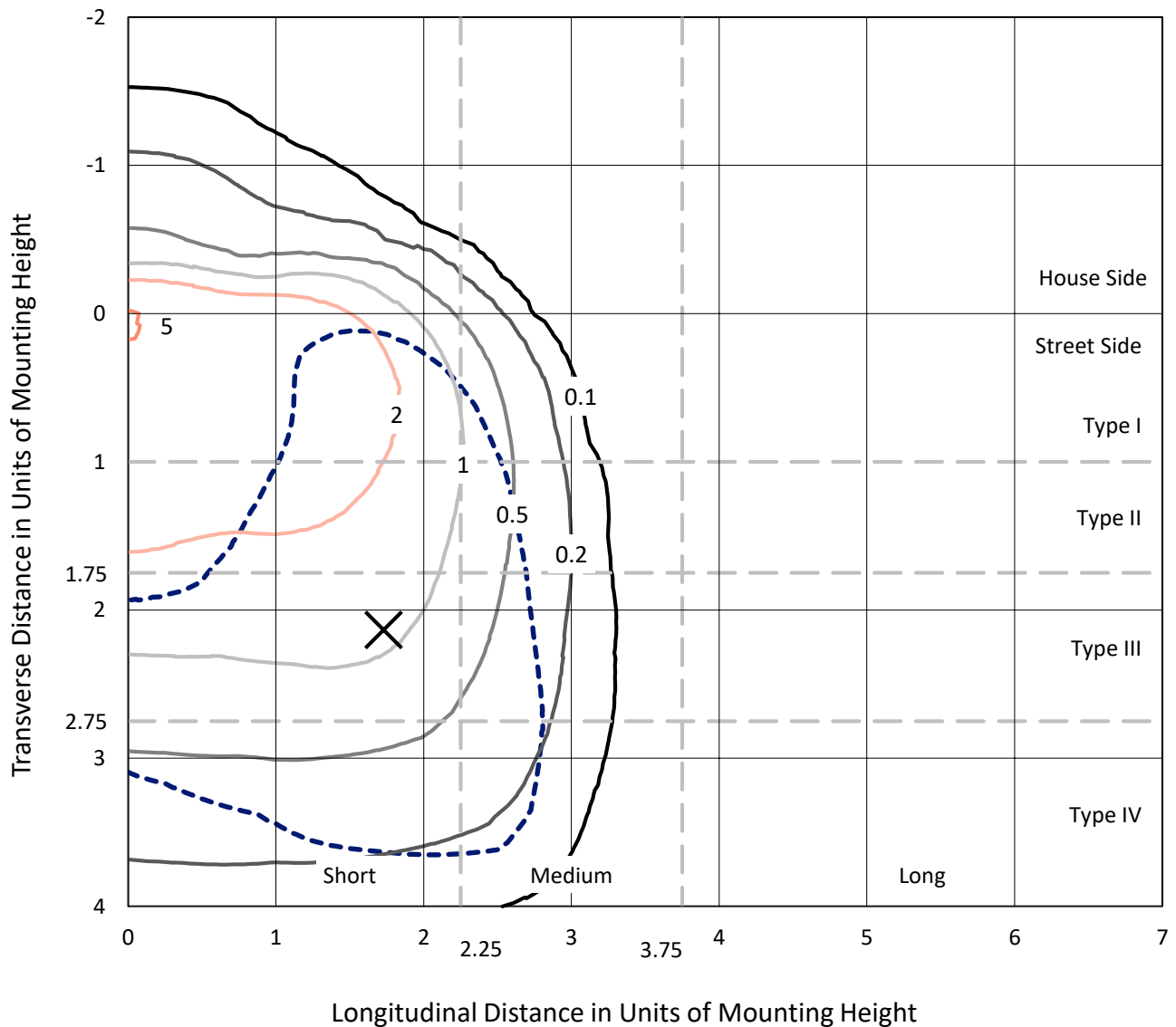
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

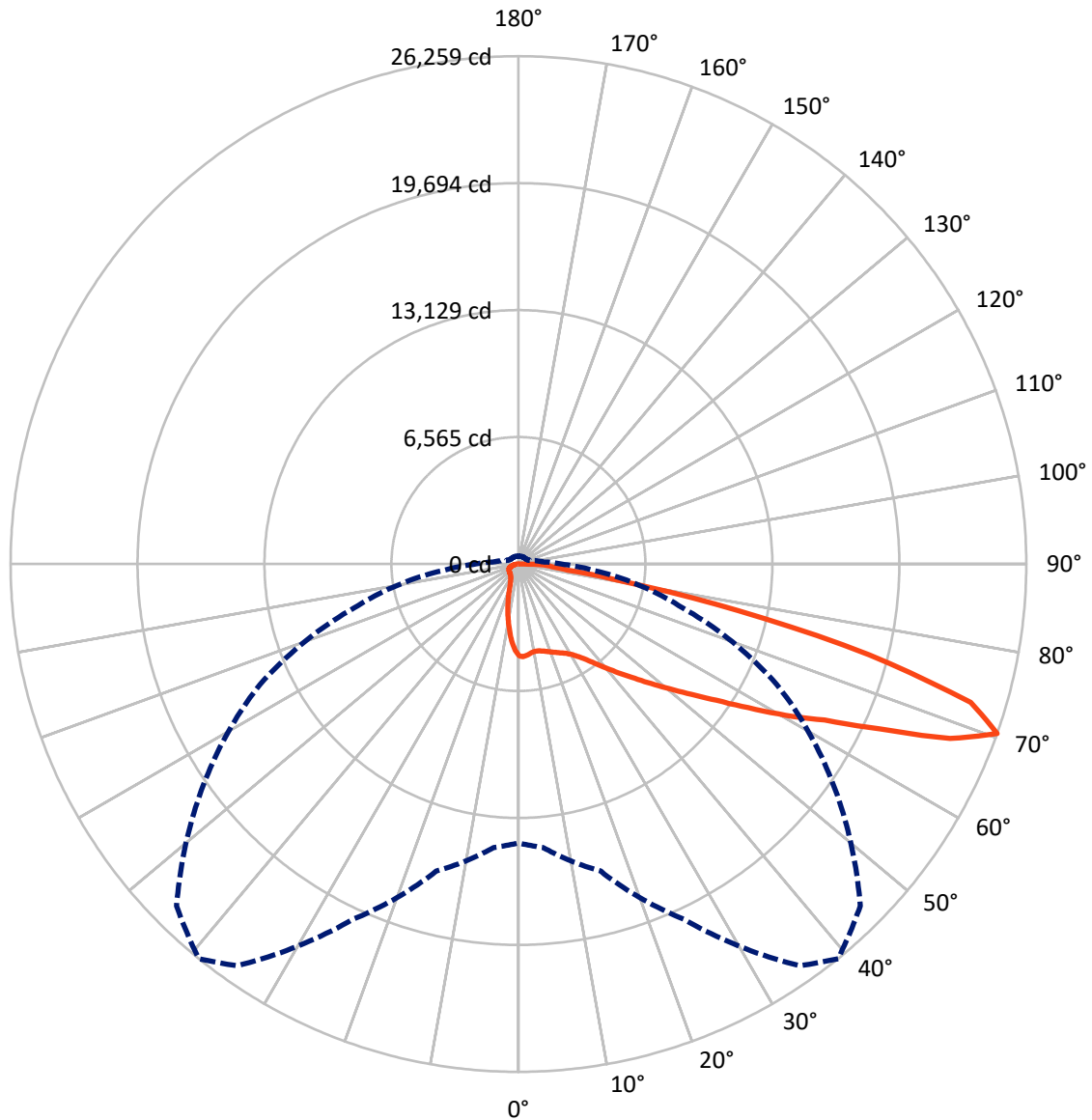
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3555.4	0.0	3555.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	27705.8	0.0	27705.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	31261.2	0.0	31261.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	1.3
10°-20°	1018.1	3.3
20°-30°	1585.2	5.1
30°-40°	2469.4	7.9
40°-50°	4145.7	13.3
50°-60°	6585.8	21.1
60°-70°	8784.7	28.1
70°-80°	5304.9	17.0
80°-90°	960.1	3.1
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°	31261.2	100.0
0°-180°	31261.2	100.0



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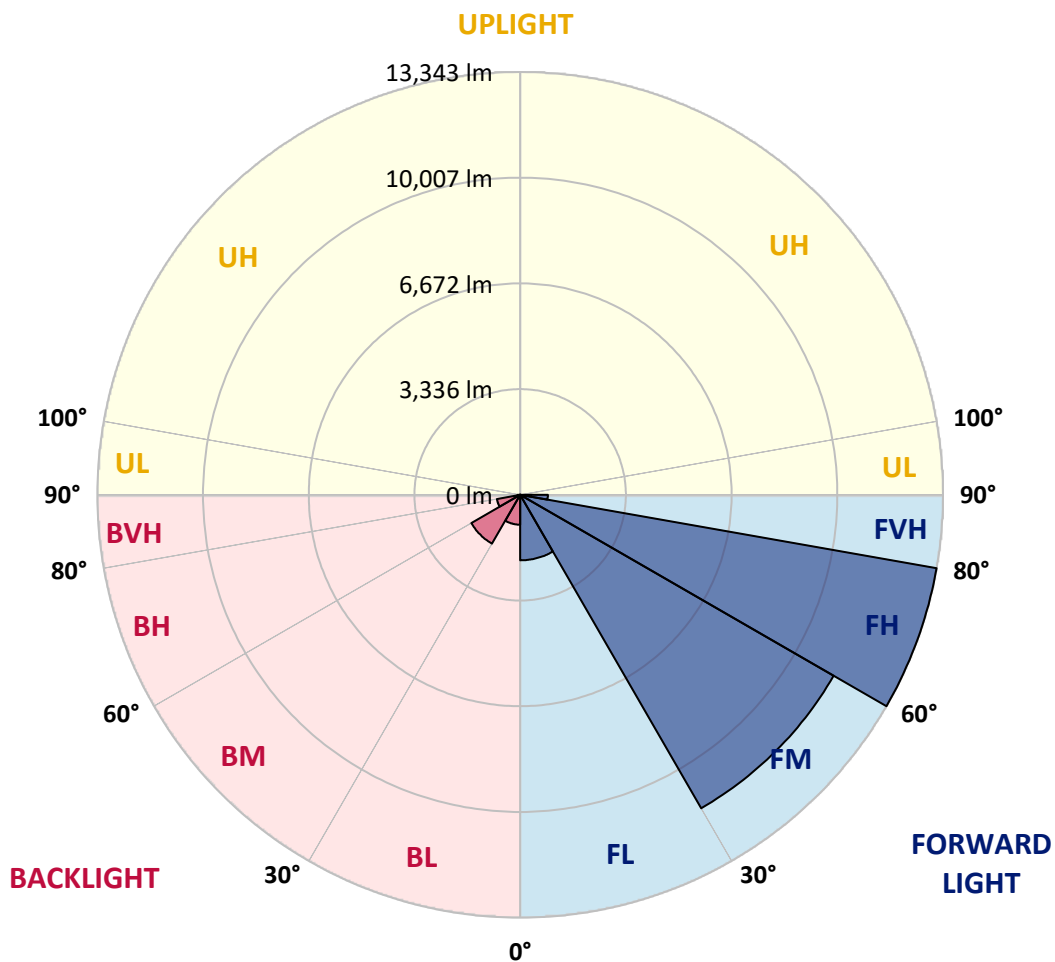
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2067.3	6.6			
FM	(30°-60°)	11421.7	36.5			
FH	(60°-80°)	13343.2	42.7			G5
FVH	(80°-90°)	873.6	2.8			G5
BL	(0°-30°)	943.2	3.0	B2/1000		
BM	(30°-60°)	1779.3	5.7	B2/2500		
BH	(60°-80°)	746.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	86.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9
2.5°	4838.1	4836.6	4823.8	4814.3	4806.4	4803.1	4809.5	4785.7	4765.1	4739.5	4712.6
5°	4801.6	4800.0	4779.3	4760.2	4741.2	4734.9	4733.2	4690.3	4665.0	4626.7	4575.9
7.5°	4761.8	4753.9	4726.9	4695.1	4661.6	4645.8	4630.0	4574.2	4545.7	4507.5	4448.7
10°	4720.5	4710.9	4685.6	4653.8	4622.0	4598.1	4571.1	4517.1	4486.8	4458.3	4389.9
12.5°	4677.6	4669.6	4663.3	4649.0	4626.7	4606.1	4585.4	4539.2	4507.5	4474.1	4394.7
15°	4671.3	4668.1	4682.5	4691.9	4679.1	4666.5	4644.2	4604.5	4571.1	4537.7	4434.4
17.5°	4722.0	4720.5	4757.0	4782.5	4776.2	4753.9	4723.8	4679.1	4652.2	4623.6	4494.8
20°	4833.4	4841.3	4885.8	4919.2	4887.3	4855.6	4806.4	4744.4	4730.1	4717.4	4556.7
22.5°	5043.2	5051.0	5082.8	5095.7	5013.0	4966.8	4898.5	4819.1	4809.5	4819.1	4631.5
25°	5370.5	5362.7	5357.8	5310.2	5159.2	5087.6	5000.2	4917.6	4922.3	4965.3	4736.4
27.5°	5804.5	5761.6	5694.8	5551.8	5311.7	5232.3	5125.8	5049.5	5079.7	5162.4	4893.7
30°	6254.3	6206.6	6052.4	5818.8	5512.0	5424.6	5305.4	5219.6	5299.1	5429.4	5103.6
32.5°	6670.8	6664.4	6438.6	6138.3	5788.5	5712.3	5593.1	5496.2	5624.8	5823.5	5418.2
35°	7125.3	7139.5	6869.3	6508.6	6162.1	6082.7	5996.8	5923.7	6095.3	6368.7	5874.5
37.5°	7611.6	7640.3	7320.8	6913.9	6588.0	6554.7	6503.7	6472.1	6737.5	7115.7	6511.8
40°	8261.6	8233.1	7789.6	7371.6	7110.9	7109.4	7093.4	7131.7	7573.6	8091.6	7330.3
42.5°	8957.8	8873.6	8287.1	7862.8	7684.7	7738.9	7770.5	7926.3	8579.6	9277.3	8328.4
45°	9708.0	9518.8	8803.7	8382.5	8322.1	8436.6	8544.6	8883.1	9763.6	10626.7	9422.0
47.5°	10307.3	10124.5	9337.8	8927.7	9059.6	9232.9	9441.0	9976.7	11089.3	12020.6	10501.1
50°	10779.3	10660.1	9876.5	9563.5	9871.8	10138.8	10478.9	11214.8	12468.8	13377.9	11500.8
52.5°	11237.1	11148.0	10420.0	10215.0	10825.4	11194.1	11656.7	12543.5	13883.3	14713.1	12341.7
55°	11650.4	11586.7	11005.0	11027.2	11947.5	12427.4	13009.2	14056.6	15425.1	15903.6	13053.7
57.5°	12116.0	12034.9	11672.5	12046.1	13389.0	14012.2	14768.7	15757.3	16871.5	16962.1	13595.6
60°	12584.8	12514.9	12413.2	13222.2	15220.1	15875.0	16591.8	17405.5	18338.5	17783.8	13563.9
62.5°	12991.7	12999.6	13179.3	14457.1	17012.9	17771.0	18645.2	19449.5	19665.6	17926.8	12561.0
65°	13681.6	13807.1	14342.7	16205.6	19536.8	20550.9	21623.7	21495.0	20032.8	16590.2	10410.6
67.5°	14501.7	14722.5	15808.1	18535.7	22726.8	24073.0	24487.8	21957.5	18562.6	13486.1	7420.9
70°	14419.1	14722.5	16440.8	20272.7	25355.7	26258.5	24999.6	19872.3	14740.0	8810.0	3941.7
72.5°	12804.2	13238.1	15151.7	19476.4	24527.6	24448.2	21703.3	14814.8	8757.5	3538.1	1540.1
75°	9758.9	10197.6	11844.2	15387.0	19385.9	18718.3	15399.6	8183.8	3323.4	1405.1	971.1
77.5°	5613.7	5953.9	7225.5	9436.2	12298.8	11613.7	8571.6	3639.8	1618.0	979.1	758.1
80°	3134.3	3323.4	4095.9	4787.3	6027.0	5524.7	3835.2	2261.6	1208.0	710.5	584.9
82.5°	2477.9	2646.4	3312.3	3019.8	2752.8	2539.8	2202.8	2013.7	964.8	448.2	349.6
85°	2164.8	2325.2	2803.7	2377.7	1880.3	1724.5	1789.6	1982.0	750.2	270.2	298.9
87.5°	2005.8	2220.3	2498.5	1832.6	1463.8	1296.9	1651.4	2172.7	241.6	168.5	120.8
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°	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9	4745.9
2.5°	4688.8	4663.3	4622.0	4585.4	4528.2	4497.9	4464.7	4440.8	4421.7	4405.8	4431.2
5°	4544.1	4496.4	4408.9	4315.2	4204.0	4116.6	4043.4	3975.1	3927.5	3895.6	3917.8
7.5°	4407.4	4329.5	4192.9	4022.8	3832.0	3669.9	3536.4	3418.8	3337.8	3285.3	3305.9
10°	4329.5	4232.6	4021.2	3754.1	3472.8	3220.1	3010.3	2829.2	2703.6	2632.0	2643.2
12.5°	4310.5	4184.8	3892.5	3525.2	3140.6	2789.4	2493.8	2242.6	2066.2	1974.0	1977.3
15°	4324.7	4164.2	3771.6	3305.9	2819.6	2376.2	2007.4	1702.3	1497.2	1392.3	1390.8
17.5°	4348.6	4148.3	3644.5	3069.1	2493.8	1978.8	1567.1	1268.4	1087.1	1002.9	996.6
20°	4373.9	4122.9	3501.4	2813.2	2155.2	1610.1	1227.0	993.3	879.0	832.9	829.8
22.5°	4410.6	4100.6	3353.6	2543.0	1823.0	1311.2	1009.2	851.9	791.5	767.6	764.5
25°	4469.4	4089.6	3196.3	2261.6	1524.2	1096.6	879.0	782.0	747.0	731.2	729.6
27.5°	4567.9	4105.4	3048.5	1988.3	1281.1	952.0	805.8	747.0	721.5	707.2	705.7
30°	4695.1	4154.7	2892.7	1729.2	1091.9	853.6	761.3	723.2	702.5	688.3	688.3
32.5°	4906.5	4237.3	2729.0	1505.1	956.8	785.1	728.0	702.5	685.0	673.9	672.3
35°	5218.0	4393.1	2576.5	1319.2	859.9	735.9	699.4	680.2	667.6	661.2	661.2
37.5°	5671.0	4639.4	2441.3	1185.7	801.1	702.5	672.3	658.0	650.1	650.1	650.1
40°	6279.6	4979.6	2331.7	1096.6	767.6	678.7	651.6	640.5	635.8	637.3	637.3
42.5°	7031.5	5421.5	2258.5	1034.6	751.8	664.4	637.3	627.8	623.0	621.4	623.0
45°	7888.2	5923.7	2250.6	988.6	735.9	654.8	627.8	618.3	608.8	602.3	602.3
47.5°	8721.1	6433.8	2315.8	972.7	718.4	643.7	619.8	610.3	596.0	581.7	581.7
50°	9456.9	6867.8	2403.1	979.1	712.1	627.8	607.2	602.3	580.1	564.3	562.6
52.5°	10041.8	7201.6	2474.7	998.2	718.4	616.7	591.2	592.8	569.0	551.5	549.9
55°	10510.7	7420.9	2455.6	1017.2	732.7	610.3	577.0	580.1	561.0	543.6	543.6
57.5°	10715.7	7339.8	2244.1	1001.4	743.8	612.0	565.9	578.5	562.6	546.8	546.8
60°	10275.5	6619.8	1848.4	931.4	729.6	607.2	561.0	584.9	583.3	567.4	565.9
62.5°	8943.5	5330.9	1433.6	828.0	680.2	583.3	548.4	583.3	600.8	596.0	594.5
65°	6893.1	3797.1	1095.1	716.8	613.5	543.6	514.9	546.8	570.6	577.0	575.4
67.5°	4474.1	2326.9	843.9	612.0	538.7	497.4	472.0	486.3	491.1	491.1	488.0
70°	2199.7	1252.4	672.3	514.9	462.5	448.2	433.9	426.0	418.0	411.7	411.7
72.5°	1085.6	818.6	553.1	435.5	398.9	392.6	389.4	379.9	373.5	365.6	362.4
75°	802.6	665.9	470.5	367.1	343.3	336.9	343.3	335.3	333.8	327.4	324.3
77.5°	659.6	567.4	405.3	314.6	294.0	282.9	292.5	294.0	295.6	286.0	282.9
80°	535.6	479.9	338.6	260.7	241.6	233.6	240.1	252.7	255.8	241.6	235.2
82.5°	386.2	392.6	273.3	203.4	187.6	181.2	193.9	209.8	212.9	192.3	187.6
85°	324.3	327.4	209.8	144.7	128.7	119.2	139.9	155.8	166.8	146.2	141.5
87.5°	135.1	192.3	120.8	81.1	71.6	62.0	74.8	82.6	100.1	92.3	90.5
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)