

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: P191244

Luminaire Tested: **GAN-AF-06-LED-U-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191244
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-06-LED-U-SL4-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 27959.3 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

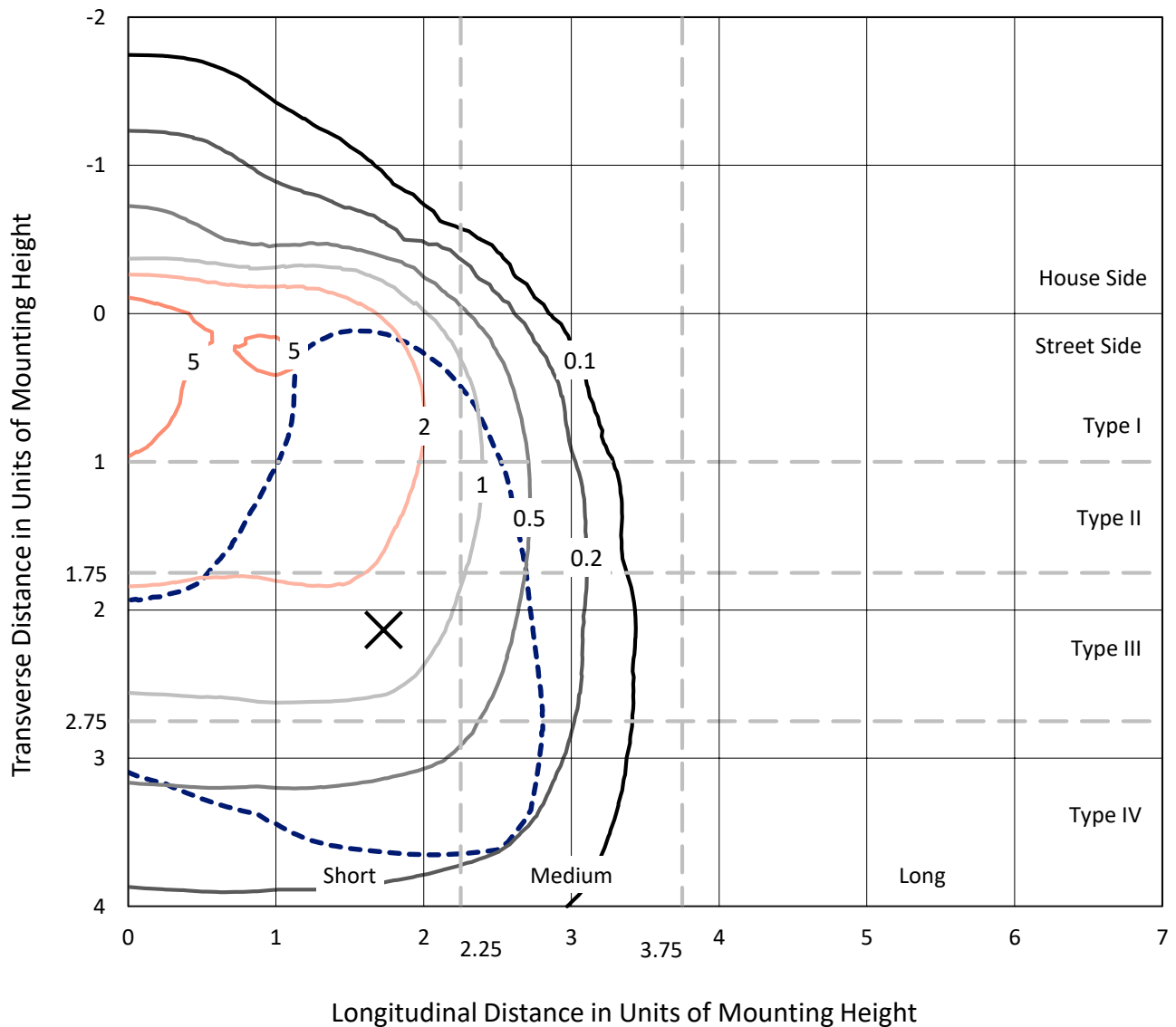
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

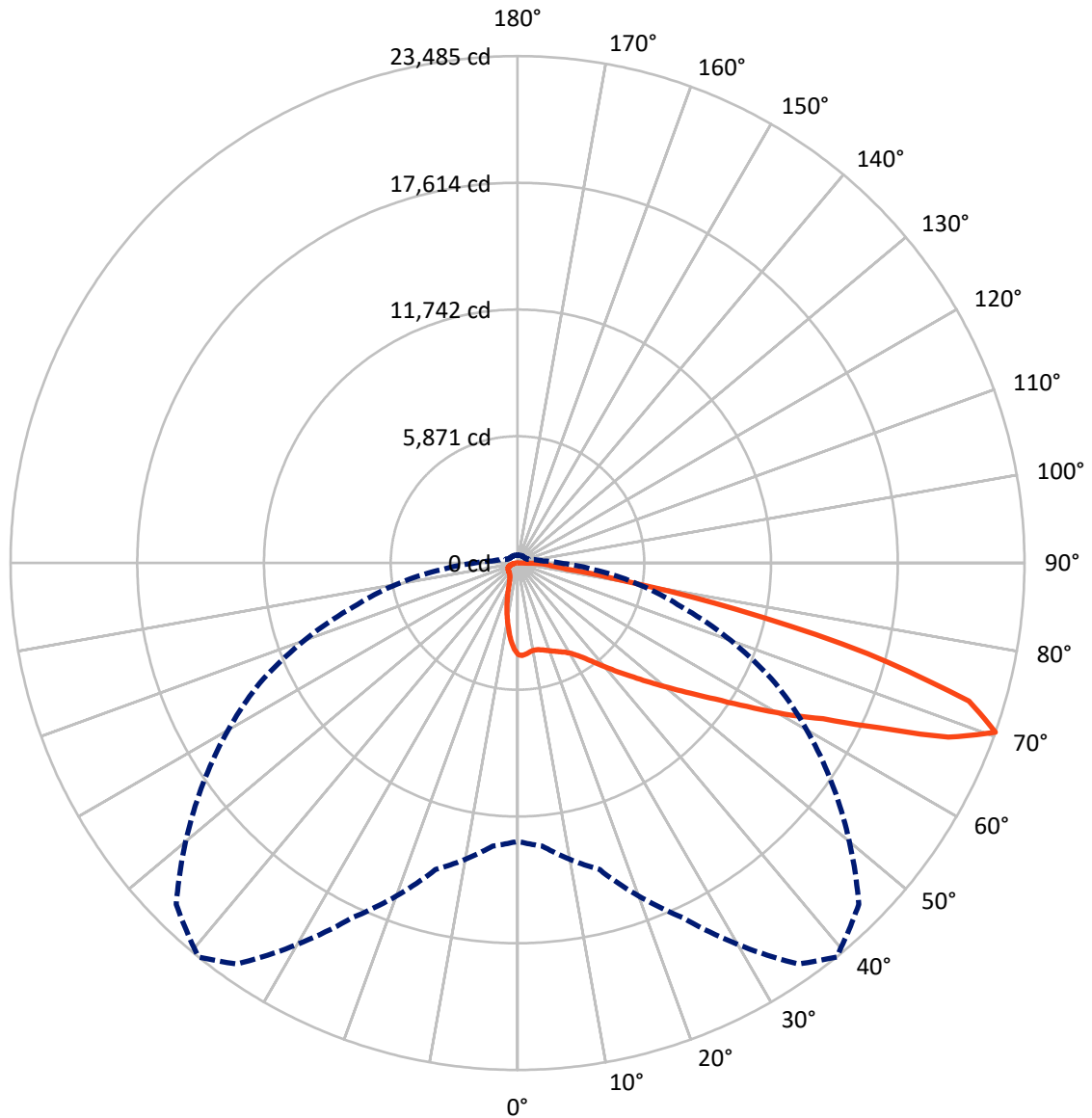


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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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	3179.9	0.0	3179.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	24779.4	0.0	24779.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	27959.3	0.0	27959.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.3	1.3
10°-20°	910.5	3.3
20°-30°	1417.7	5.1
30°-40°	2208.6	7.9
40°-50°	3707.8	13.3
50°-60°	5890.2	21.1
60°-70°	7856.9	28.1
70°-80°	4744.6	17.0
80°-90°	858.7	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°	27959.3	100.0
0°-180°	27959.3	100.0

Coefficient of Utilization



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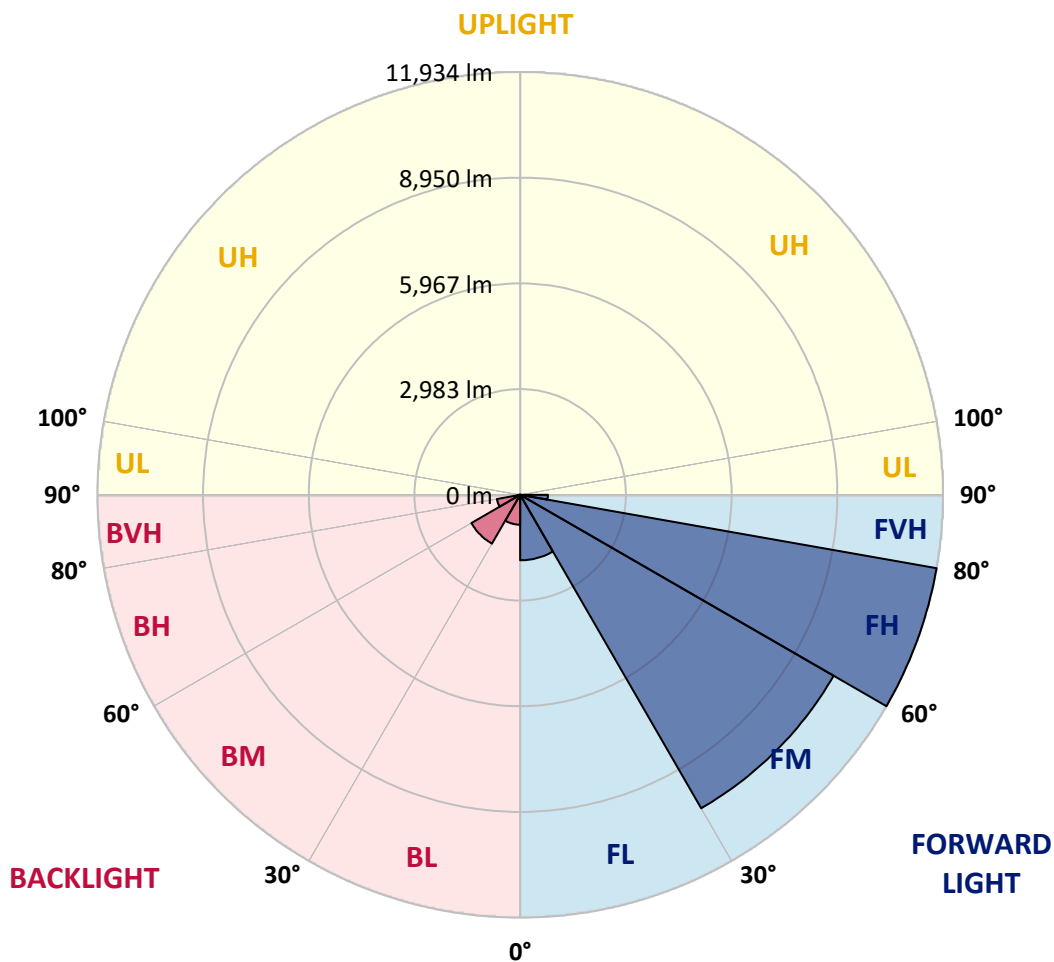
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1849.0	6.6			
FM	(30°-60°)	10215.2	36.5			
FH	(60°-80°)	11933.8	42.7			G4/12000
FVH	(80°-90°)	781.3	2.8			G5
BL	(0°-30°)	843.6	3.0	B2/1000		
BM	(30°-60°)	1591.4	5.7	B2/2500		
BH	(60°-80°)	667.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	77.4	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°	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6
2.5°	4327.1	4325.6	4314.3	4305.8	4298.6	4295.8	4301.5	4280.2	4261.7	4239.0	4214.8
5°	4294.4	4293.0	4274.5	4257.4	4240.4	4234.7	4233.3	4194.9	4172.2	4138.0	4092.5
7.5°	4258.9	4251.8	4227.5	4199.2	4169.3	4155.1	4140.9	4091.1	4065.5	4031.4	3978.9
10°	4221.9	4213.3	4190.6	4162.2	4133.7	4112.5	4088.3	4039.9	4012.9	3987.4	3926.2
12.5°	4183.6	4176.4	4170.8	4158.0	4138.0	4119.5	4101.1	4059.9	4031.4	4001.6	3930.5
15°	4177.8	4175.0	4187.8	4196.3	4185.0	4173.5	4153.7	4118.1	4088.3	4058.5	3966.1
17.5°	4223.4	4221.9	4254.6	4277.4	4271.6	4251.8	4224.8	4185.0	4160.8	4135.2	4020.1
20°	4322.9	4329.9	4369.7	4399.6	4371.2	4342.7	4298.6	4243.2	4230.4	4219.1	4075.5
22.5°	4510.5	4517.6	4546.0	4557.3	4483.5	4442.3	4381.1	4310.0	4301.5	4310.0	4142.3
25°	4803.3	4796.2	4791.9	4749.3	4614.2	4550.3	4472.1	4398.2	4402.5	4440.8	4236.1
27.5°	5191.4	5153.0	5093.3	4965.4	4750.7	4679.6	4584.4	4516.1	4543.1	4617.1	4376.9
30°	5593.7	5551.0	5413.1	5204.2	4929.8	4851.7	4745.1	4668.2	4739.3	4855.9	4564.5
32.5°	5966.2	5960.4	5758.6	5489.9	5177.2	5108.9	5002.3	4915.6	5030.8	5208.5	4845.9
35°	6372.7	6385.5	6143.8	5821.1	5511.2	5440.2	5363.4	5298.0	5451.5	5696.0	5254.0
37.5°	6807.6	6833.2	6547.5	6183.6	5892.2	5862.3	5816.8	5788.5	6025.8	6364.2	5824.0
40°	7389.1	7363.5	6966.9	6593.0	6359.9	6358.5	6344.2	6378.3	6773.6	7237.0	6556.1
42.5°	8011.6	7936.4	7411.8	7032.3	6873.0	6921.4	6949.8	7089.2	7673.4	8297.4	7448.7
45°	8682.6	8513.5	7873.8	7497.1	7443.1	7545.4	7642.1	7944.8	8732.4	9504.2	8426.8
47.5°	9218.5	9055.1	8351.4	7984.6	8102.7	8257.6	8443.8	8922.9	9917.9	10750.9	9392.0
50°	9640.7	9534.1	8833.3	8553.3	8829.1	9067.8	9372.1	10030.2	11151.8	11964.9	10286.1
52.5°	10050.2	9970.5	9319.5	9136.1	9681.9	10011.7	10425.4	11218.6	12417.0	13159.0	11038.0
55°	10419.8	10362.9	9842.6	9862.5	10685.5	11114.9	11635.1	12571.9	13795.8	14223.7	11674.9
57.5°	10836.2	10763.7	10439.6	10773.7	11974.9	12532.1	13208.8	14092.9	15089.4	15170.5	12159.7
60°	11255.6	11193.0	11102.1	11825.6	13612.5	14198.1	14839.2	15567.1	16401.5	15905.4	12131.3
62.5°	11619.5	11626.6	11787.3	12930.1	15215.9	15894.0	16675.8	17395.1	17588.4	16033.3	11234.3
65°	12236.4	12348.8	12827.8	14493.8	17473.3	18380.3	19339.8	19224.6	17916.8	14837.8	9310.9
67.5°	12969.9	13167.5	14138.4	16577.7	20326.3	21530.4	21901.4	19638.3	16601.9	12061.6	6637.1
70°	12896.0	13167.5	14704.2	18131.5	22677.5	23484.9	22359.0	17773.3	13183.2	7879.5	3525.4
72.5°	11451.7	11839.8	13551.3	17419.3	21936.9	21865.8	19410.8	13250.0	7832.5	3164.3	1377.4
75°	8728.1	9120.4	10593.2	13761.8	17338.3	16741.2	13773.1	7319.4	2972.4	1256.6	868.6
77.5°	5020.8	5325.0	6462.2	8439.5	10999.7	10387.0	7666.2	3255.2	1447.1	875.6	678.1
80°	2803.2	2972.4	3663.3	4281.7	5390.4	4941.2	3430.2	2022.8	1080.3	635.5	523.1
82.5°	2216.1	2366.8	2962.5	2700.9	2462.0	2271.6	1970.2	1801.1	862.9	400.9	312.7
85°	1936.1	2079.7	2507.6	2126.6	1681.6	1542.3	1600.6	1772.7	671.0	241.6	267.2
87.5°	1793.9	1985.9	2234.6	1639.0	1309.2	1159.9	1476.9	1943.2	216.0	150.7	108.0
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°	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6	4244.6
2.5°	4193.5	4170.8	4133.7	4101.1	4049.9	4022.9	3993.1	3971.7	3954.6	3940.4	3963.2
5°	4064.1	4021.5	3943.3	3859.4	3760.0	3681.7	3616.3	3555.3	3512.6	3484.2	3504.0
7.5°	3941.8	3872.2	3749.9	3597.8	3427.3	3282.2	3162.9	3057.7	2985.2	2938.3	2956.7
10°	3872.2	3785.5	3596.5	3357.6	3106.0	2880.0	2692.4	2530.3	2418.1	2354.0	2363.9
12.5°	3855.2	3742.9	3481.3	3152.9	2808.9	2494.8	2230.3	2005.8	1848.0	1765.5	1768.4
15°	3868.0	3724.4	3373.3	2956.7	2521.8	2125.2	1795.4	1522.5	1339.0	1245.2	1243.8
17.5°	3889.3	3710.1	3259.5	2745.0	2230.3	1769.8	1401.6	1134.4	972.3	897.0	891.3
20°	3912.0	3687.4	3131.6	2516.0	1927.5	1440.0	1097.4	888.4	786.1	744.9	742.0
22.5°	3944.7	3667.5	2999.4	2274.4	1630.5	1172.7	902.7	761.9	707.9	686.6	683.7
25°	3997.3	3657.6	2858.6	2022.8	1363.3	980.8	786.1	699.4	668.1	653.9	652.4
27.5°	4085.5	3671.8	2726.5	1778.3	1145.7	851.5	720.7	668.1	645.4	632.6	631.2
30°	4199.2	3715.9	2587.1	1546.6	976.6	763.3	680.9	646.8	628.3	615.5	615.5
32.5°	4388.3	3789.7	2440.8	1346.2	855.8	702.3	651.0	628.3	612.6	602.7	601.3
35°	4666.8	3929.1	2304.3	1179.9	769.1	658.2	625.4	608.5	597.0	591.4	591.4
37.5°	5072.0	4149.4	2183.5	1060.5	716.5	628.3	601.3	588.5	581.4	581.4	581.4
40°	5616.4	4453.6	2085.4	980.8	686.6	607.0	582.8	572.9	568.7	570.0	570.0
42.5°	6288.8	4848.8	2020.0	925.4	672.4	594.2	570.0	561.5	557.2	555.8	557.2
45°	7055.0	5298.0	2012.9	884.1	658.2	585.6	561.5	553.0	544.4	538.8	538.8
47.5°	7799.9	5754.3	2071.2	870.0	642.5	575.7	554.4	545.8	533.1	520.3	520.3
50°	8458.1	6142.4	2149.3	875.6	636.9	561.5	543.0	538.8	518.8	504.6	503.2
52.5°	8981.2	6440.9	2213.3	892.7	642.5	551.6	528.8	530.2	508.9	493.3	491.8
55°	9400.5	6637.1	2196.3	909.8	655.3	545.8	516.0	518.8	501.8	486.2	486.2
57.5°	9583.9	6564.6	2007.2	895.6	665.2	547.3	506.1	517.4	503.2	489.0	489.0
60°	9190.1	5920.6	1653.2	833.0	652.4	543.0	501.8	523.1	521.7	507.5	506.1
62.5°	7998.9	4767.8	1282.2	740.6	608.5	521.7	490.4	521.7	537.4	533.1	531.6
65°	6165.1	3396.0	979.5	641.1	548.7	486.2	460.5	489.0	510.4	516.0	514.5
67.5°	4001.6	2081.1	754.8	547.3	481.9	445.0	422.2	435.0	439.3	439.3	436.4
70°	1967.3	1120.1	601.3	460.5	413.7	400.9	388.1	380.9	373.9	368.2	368.2
72.5°	970.9	732.1	494.7	389.5	356.8	351.1	348.3	339.7	334.1	326.9	324.1
75°	717.9	595.7	420.7	328.4	307.1	301.4	307.1	299.9	298.5	292.9	290.0
77.5°	589.9	507.5	362.5	281.4	263.0	253.1	261.6	263.0	264.4	255.8	253.1
80°	479.0	429.3	302.8	233.1	216.0	209.0	214.6	226.1	228.8	216.0	210.4
82.5°	345.5	351.1	244.5	182.0	167.8	162.0	173.4	187.6	190.5	172.0	167.8
85°	290.0	292.9	187.6	129.4	115.2	106.6	125.1	139.3	149.2	130.7	126.5
87.5°	120.8	172.0	108.0	72.5	63.9	55.4	66.8	74.0	89.5	82.4	81.0
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)