

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: P268844

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268844
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-09-LED-U-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 35494.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

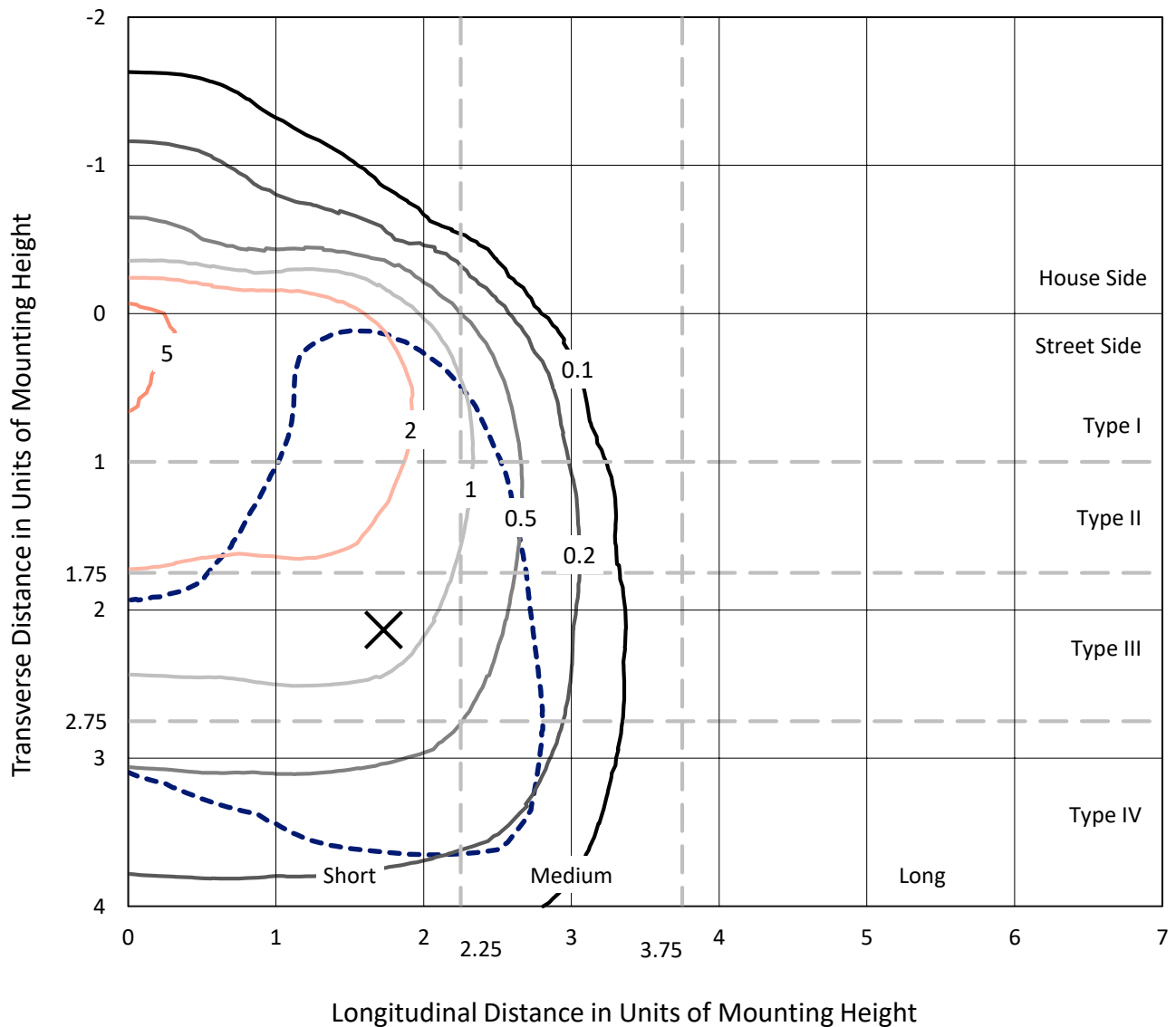
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

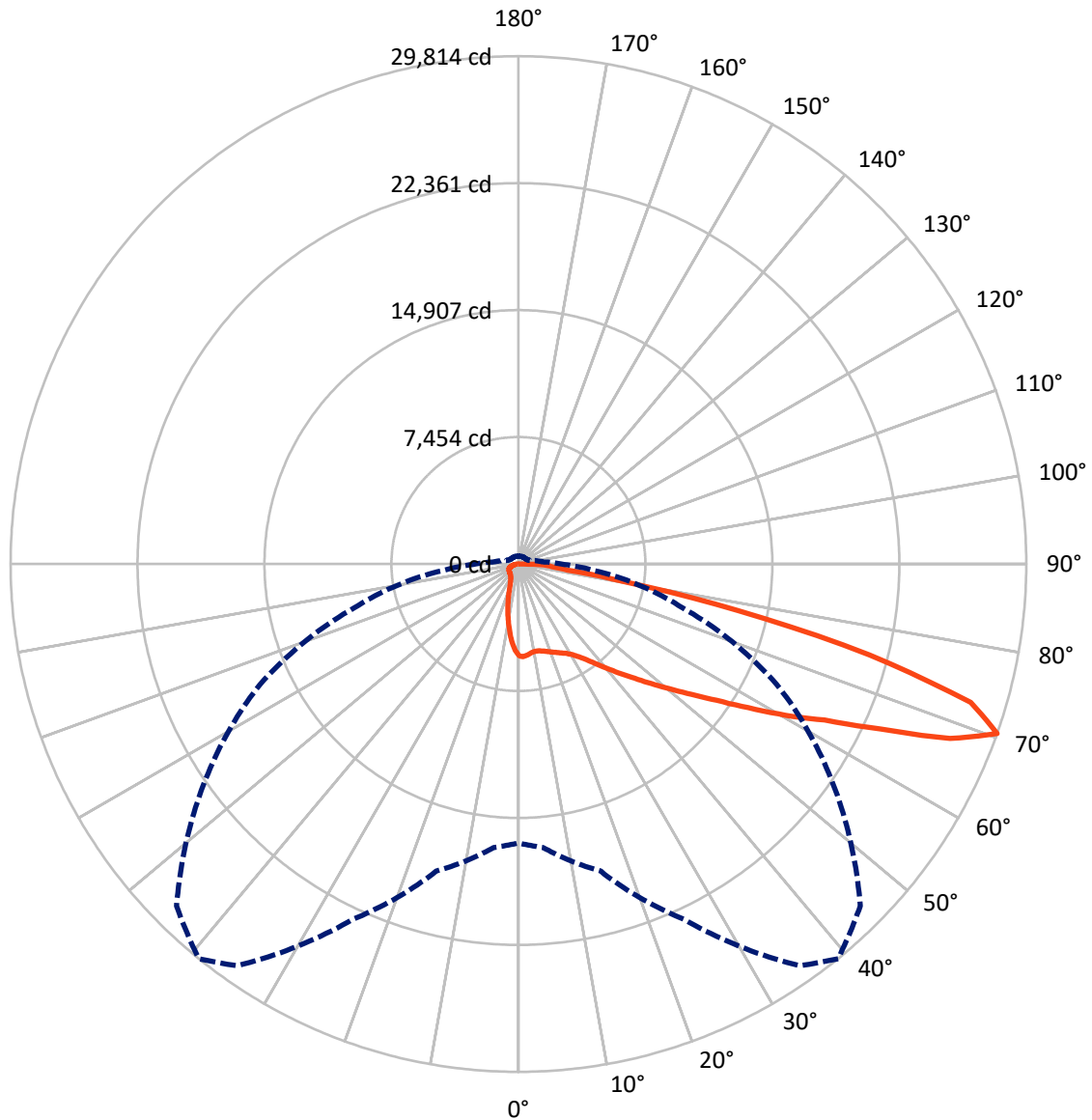


Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

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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	4036.9	0.0	4036.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	31457.4	0.0	31457.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	35494.3	0.0	35494.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.4	1.3
10°-20°	1155.9	3.3
20°-30°	1799.8	5.1
30°-40°	2803.8	7.9
40°-50°	4707.1	13.3
50°-60°	7477.6	21.1
60°-70°	9974.3	28.1
70°-80°	6023.2	17.0
80°-90°	1090.1	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°	35494.3	100.0
0°-180°	35494.3	100.0



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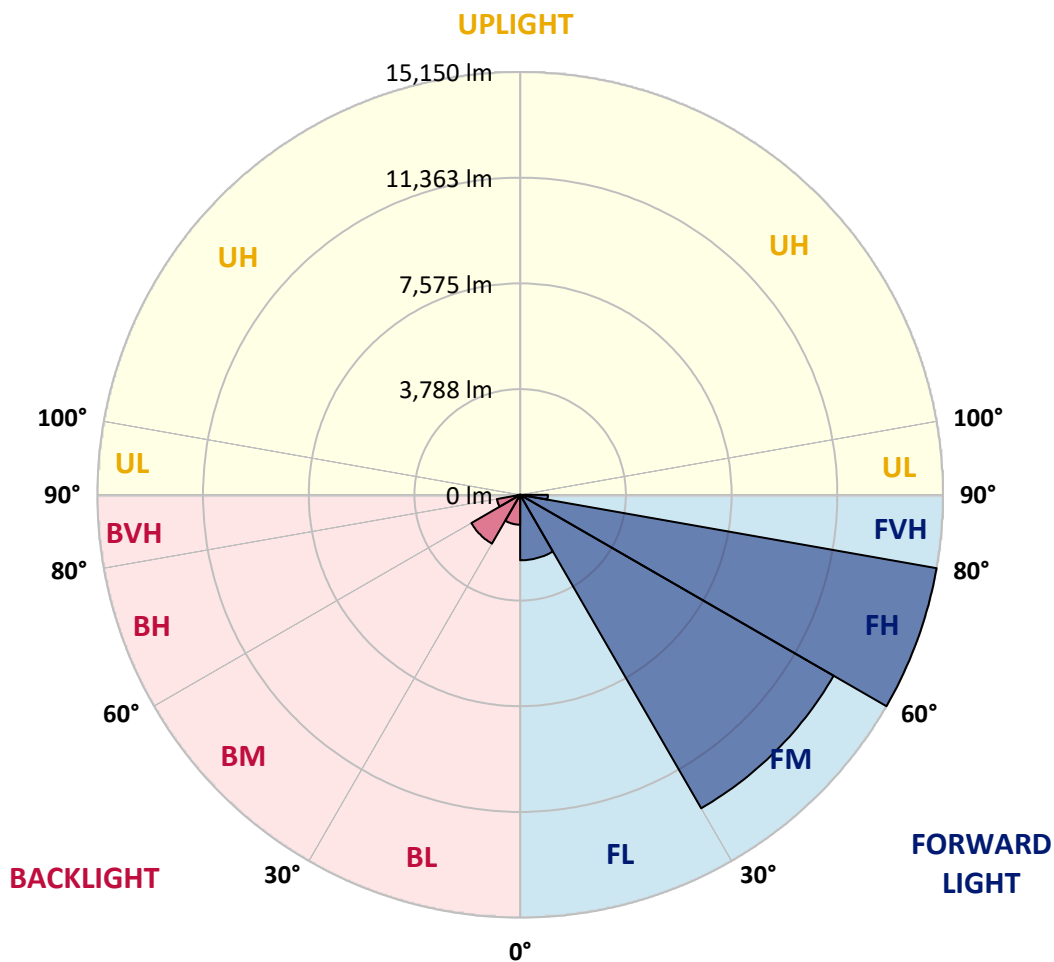
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2347.3	6.6			
FM	(30°-60°)	12968.2	36.5			
FH	(60°-80°)	15150.0	42.7			G5
FVH	(80°-90°)	991.9	2.8			G5
BL	(0°-30°)	1070.9	3.0	B3/2500		
BM	(30°-60°)	2020.2	5.7	B2/2500		
BH	(60°-80°)	847.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	98.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7
2.5°	5493.2	5491.5	5477.1	5466.1	5457.2	5453.5	5460.7	5433.7	5410.2	5381.3	5350.7
5°	5451.8	5449.9	5426.5	5404.8	5383.2	5375.9	5374.1	5325.4	5296.5	5253.3	5195.4
7.5°	5406.5	5397.6	5367.0	5330.8	5293.0	5274.8	5256.8	5193.7	5161.2	5118.0	5051.1
10°	5359.6	5348.9	5320.0	5283.9	5247.8	5220.8	5190.0	5128.8	5094.5	5061.9	4984.3
12.5°	5311.0	5301.9	5294.7	5278.5	5253.3	5229.8	5206.3	5153.9	5118.0	5079.9	4989.7
15°	5303.8	5300.2	5316.3	5327.2	5312.8	5298.4	5273.1	5228.0	5190.0	5152.1	5034.9
17.5°	5361.5	5359.6	5401.1	5430.1	5422.9	5397.6	5363.3	5312.8	5282.2	5249.6	5103.5
20°	5487.8	5496.9	5547.5	5585.3	5549.2	5513.1	5457.2	5386.7	5370.5	5356.1	5173.9
22.5°	5726.1	5735.0	5771.3	5785.7	5691.8	5639.4	5561.9	5471.5	5460.7	5471.5	5258.7
25°	6097.9	6088.8	6083.3	6029.2	5857.8	5776.6	5677.3	5583.4	5588.9	5637.7	5377.8
27.5°	6590.4	6541.7	6465.9	6303.5	6031.0	5940.9	5819.8	5733.3	5767.6	5861.4	5556.5
30°	7101.1	7047.1	6871.9	6606.8	6258.4	6159.1	6023.9	5926.4	6016.6	6164.6	5794.6
32.5°	7574.0	7566.8	7310.4	6969.4	6572.4	6485.9	6350.5	6240.3	6386.5	6612.2	6152.0
35°	8090.0	8106.3	7799.5	7389.8	6996.4	6906.3	6808.9	6725.8	6920.7	7231.0	6669.8
37.5°	8642.4	8674.8	8312.0	7850.1	7480.1	7442.3	7384.4	7348.3	7649.7	8079.3	7393.5
40°	9380.5	9347.9	8844.4	8369.8	8073.8	8072.1	8054.1	8097.3	8598.9	9187.2	8322.8
42.5°	10170.8	10075.2	9409.2	8927.4	8725.2	8786.7	8822.8	8999.6	9741.3	10533.5	9456.2
45°	11022.7	10807.9	9995.8	9517.5	9449.0	9578.8	9701.6	10086.0	11085.8	12065.7	10697.7
47.5°	11702.8	11495.4	10602.2	10136.6	10286.3	10483.0	10719.5	11327.5	12590.9	13648.3	11923.2
50°	12238.9	12103.6	11213.9	10858.4	11208.5	11511.6	11897.8	12733.4	14157.2	15189.4	13058.2
52.5°	12758.6	12657.6	11831.0	11598.2	12291.2	12709.8	13235.1	14242.0	15763.3	16705.3	14012.8
55°	13227.8	13155.7	12495.2	12520.4	13565.2	14110.2	14770.8	15960.0	17513.8	18057.0	14821.3
57.5°	13756.6	13664.6	13253.1	13677.1	15202.0	15909.5	16768.5	17891.0	19155.9	19258.9	15436.7
60°	14289.0	14209.6	14094.0	15012.7	17281.1	18024.5	18838.4	19762.4	20821.6	20191.8	15400.6
62.5°	14751.0	14760.0	14963.8	16414.8	19316.7	20177.4	21169.9	22083.2	22328.5	20354.2	14261.9
65°	15534.1	15676.7	16284.8	18399.9	22182.3	23333.7	24551.8	24405.6	22745.4	18836.6	11820.3
67.5°	16465.4	16716.2	17948.8	21045.4	25804.3	27332.6	27803.7	24930.8	21076.2	15312.1	8425.7
70°	16371.5	16716.2	18667.0	23017.9	28789.1	29814.0	28384.9	22563.1	16736.1	10002.9	4475.4
72.5°	14538.0	15030.6	17203.4	22113.8	27848.8	27758.6	24642.0	16820.9	9943.3	4017.1	1748.7
75°	11080.4	11578.4	13447.9	17470.4	22010.9	21253.0	17484.9	9292.0	3773.4	1595.3	1102.6
77.5°	6374.0	6760.0	8203.9	10714.1	13964.2	13186.3	9732.2	4132.6	1837.2	1111.7	860.8
80°	3558.6	3773.4	4650.4	5435.6	6843.1	6272.9	4354.5	2568.0	1371.5	806.7	664.0
82.5°	2813.4	3004.7	3760.8	3428.8	3125.7	2883.7	2501.2	2286.5	1095.5	508.9	397.1
85°	2457.9	2640.2	3183.4	2699.6	2134.8	1958.0	2032.0	2250.3	851.9	306.9	339.3
87.5°	2277.5	2521.1	2836.8	2080.7	1662.0	1472.6	1875.0	2466.9	274.3	191.2	137.1
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°	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7	5388.7
2.5°	5323.6	5294.7	5247.8	5206.3	5141.4	5107.0	5069.1	5042.0	5020.4	5002.4	5031.2
5°	5159.3	5105.2	5006.1	4899.5	4773.2	4673.9	4591.0	4513.4	4459.1	4423.2	4448.3
7.5°	5004.2	4915.7	4760.6	4567.5	4350.9	4166.9	4015.2	3881.8	3789.7	3730.1	3753.6
10°	4915.7	4805.8	4565.6	4262.5	3943.1	3656.1	3418.0	3212.2	3069.7	2988.4	3001.1
12.5°	4894.1	4751.6	4419.5	4002.7	3565.9	3167.2	2831.5	2546.3	2346.1	2241.4	2245.0
15°	4910.3	4728.0	4282.4	3753.6	3201.4	2697.9	2279.2	1932.8	1700.0	1580.8	1579.0
17.5°	4937.4	4710.1	4138.0	3484.7	2831.5	2246.8	1779.4	1440.2	1234.4	1138.7	1131.4
20°	4966.3	4681.2	3975.5	3194.2	2447.1	1828.1	1393.1	1127.9	997.9	945.6	942.1
22.5°	5007.8	4655.9	3807.7	2887.4	2069.9	1488.9	1146.0	967.3	898.8	871.6	868.0
25°	5074.5	4643.2	3629.2	2568.0	1730.7	1245.2	997.9	887.9	848.2	830.2	828.2
27.5°	5186.5	4661.3	3461.3	2257.6	1454.5	1081.0	915.0	848.2	819.3	803.1	801.3
30°	5330.8	4717.3	3284.5	1963.4	1239.8	969.1	864.3	821.1	797.7	781.3	781.3
32.5°	5570.8	4811.1	3098.6	1708.9	1086.4	891.5	826.5	797.7	777.8	765.1	763.4
35°	5924.5	4988.0	2925.3	1497.8	976.3	835.6	794.0	772.4	757.9	750.8	750.8
37.5°	6439.0	5267.8	2771.9	1346.2	909.5	797.7	763.4	747.1	738.0	738.0	738.0
40°	7130.0	5653.8	2647.3	1245.2	871.6	770.6	739.9	727.3	721.9	723.7	723.7
42.5°	7983.6	6155.5	2564.3	1174.9	853.6	754.3	723.7	712.9	707.4	705.6	707.4
45°	8956.3	6725.8	2555.4	1122.5	835.6	743.4	712.9	701.9	691.2	684.0	684.0
47.5°	9901.9	7305.0	2629.2	1104.5	815.8	731.0	703.8	693.0	676.8	660.6	660.6
50°	10737.5	7797.7	2728.6	1111.7	808.5	712.9	689.4	684.0	658.6	640.6	638.9
52.5°	11401.6	8176.7	2809.8	1133.3	815.8	700.1	671.4	673.1	646.1	626.2	624.4
55°	11934.0	8425.7	2788.1	1155.0	831.9	693.0	655.0	658.6	637.0	617.1	617.1
57.5°	12166.7	8333.8	2548.1	1137.0	844.5	694.7	642.5	656.9	638.9	620.8	620.8
60°	11666.8	7516.2	2098.8	1057.6	828.2	689.4	637.0	664.0	662.3	644.3	642.5
62.5°	10154.6	6052.7	1627.8	940.2	772.4	662.3	622.5	662.3	682.2	676.8	674.9
65°	7826.7	4311.2	1243.3	813.9	696.5	617.1	584.6	620.8	647.9	655.0	653.2
67.5°	5079.9	2641.9	958.2	694.7	611.7	564.9	536.0	552.2	557.6	557.6	554.1
70°	2497.6	1422.0	763.4	584.6	525.1	508.9	492.7	483.6	474.7	467.4	467.4
72.5°	1232.6	929.3	628.0	494.4	452.9	445.7	442.1	431.2	424.1	415.0	411.5
75°	911.3	756.2	534.1	416.9	389.9	382.6	389.9	380.8	378.9	371.8	368.1
77.5°	748.8	644.3	460.2	357.3	333.9	321.2	332.1	333.9	335.6	324.8	321.2
80°	608.2	545.0	384.4	295.9	274.3	265.3	272.5	286.9	290.5	274.3	267.1
82.5°	438.6	445.7	310.5	231.0	213.0	205.7	220.2	238.2	241.9	218.4	213.0
85°	368.1	371.8	238.2	164.2	146.2	135.4	158.8	176.8	189.5	166.0	160.5
87.5°	153.4	218.4	137.1	92.0	81.1	70.3	84.8	93.9	113.6	104.7	102.9
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)