

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: P191245

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191245
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-SL4-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 33064.8 lumens
Efficiency: N/A
Efficacy: 112.1 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

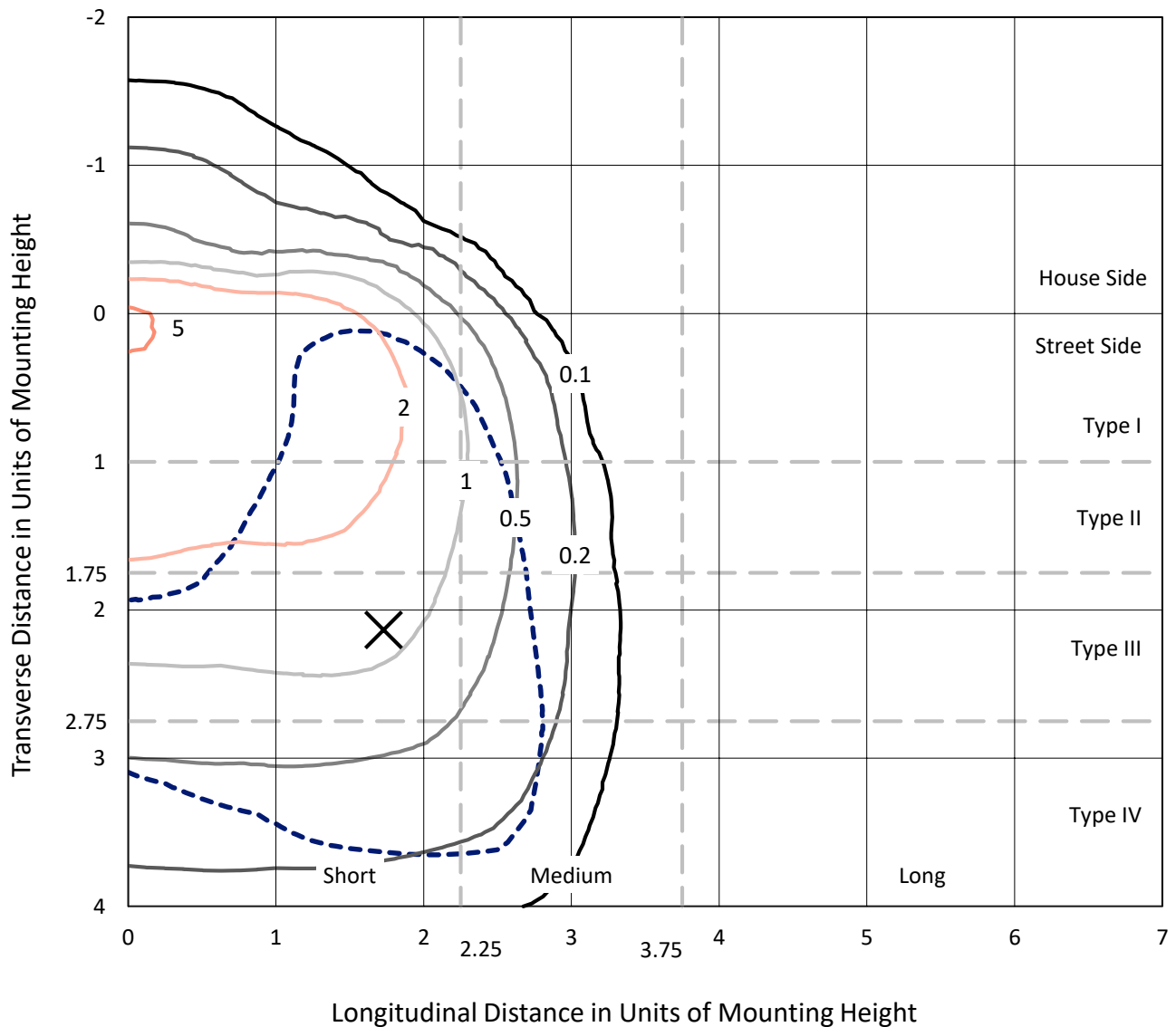
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

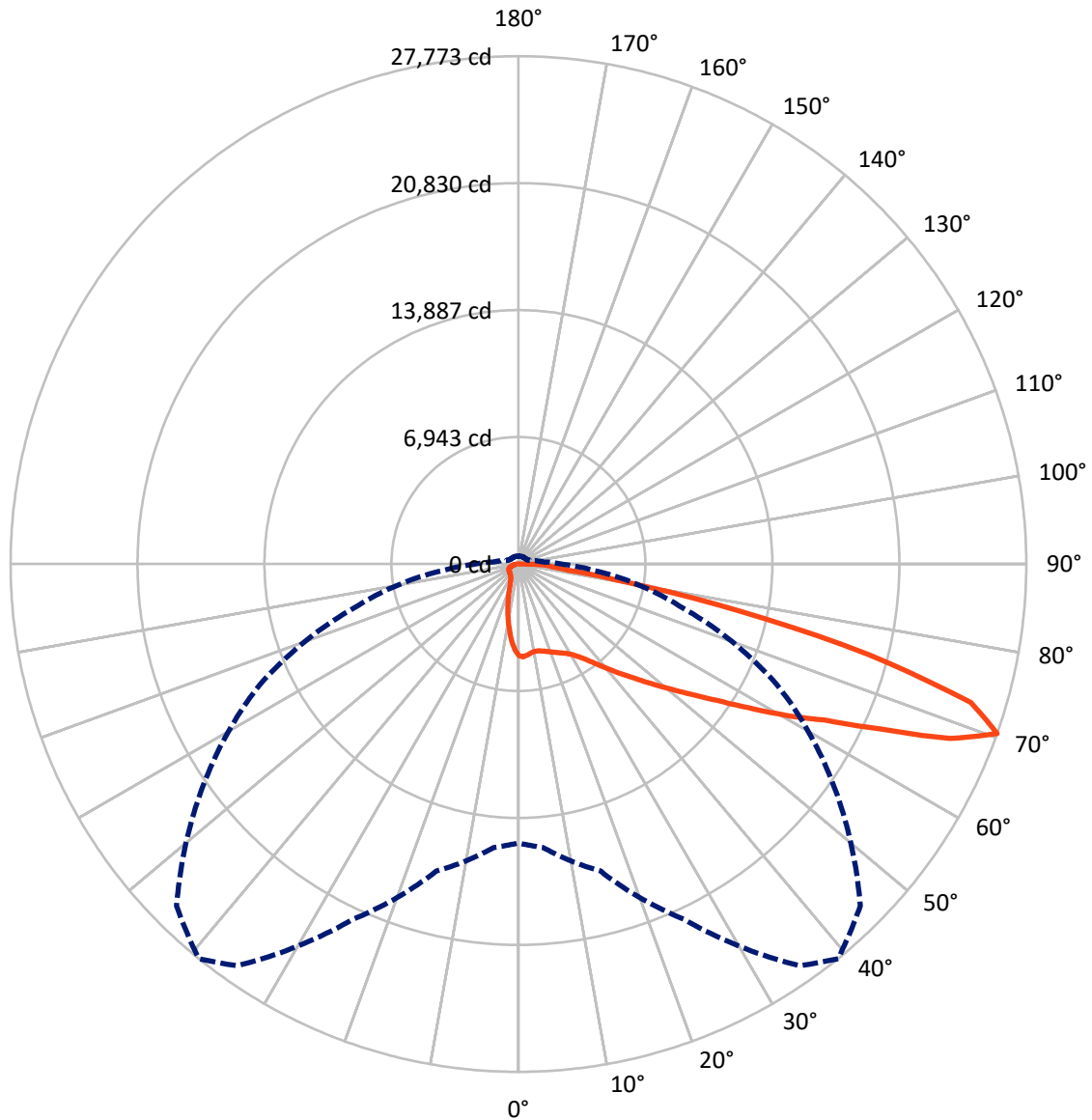
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	3760.6	0.0	3760.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	29304.3	0.0	29304.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	33064.8	0.0	33064.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.8	1.3
10°-20°	1076.8	3.3
20°-30°	1676.6	5.1
30°-40°	2611.9	7.9
40°-50°	4384.9	13.3
50°-60°	6965.8	21.1
60°-70°	9291.6	28.1
70°-80°	5611.0	17.0
80°-90°	1015.5	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°	33064.8	100.0
0°-180°	33064.8	100.0



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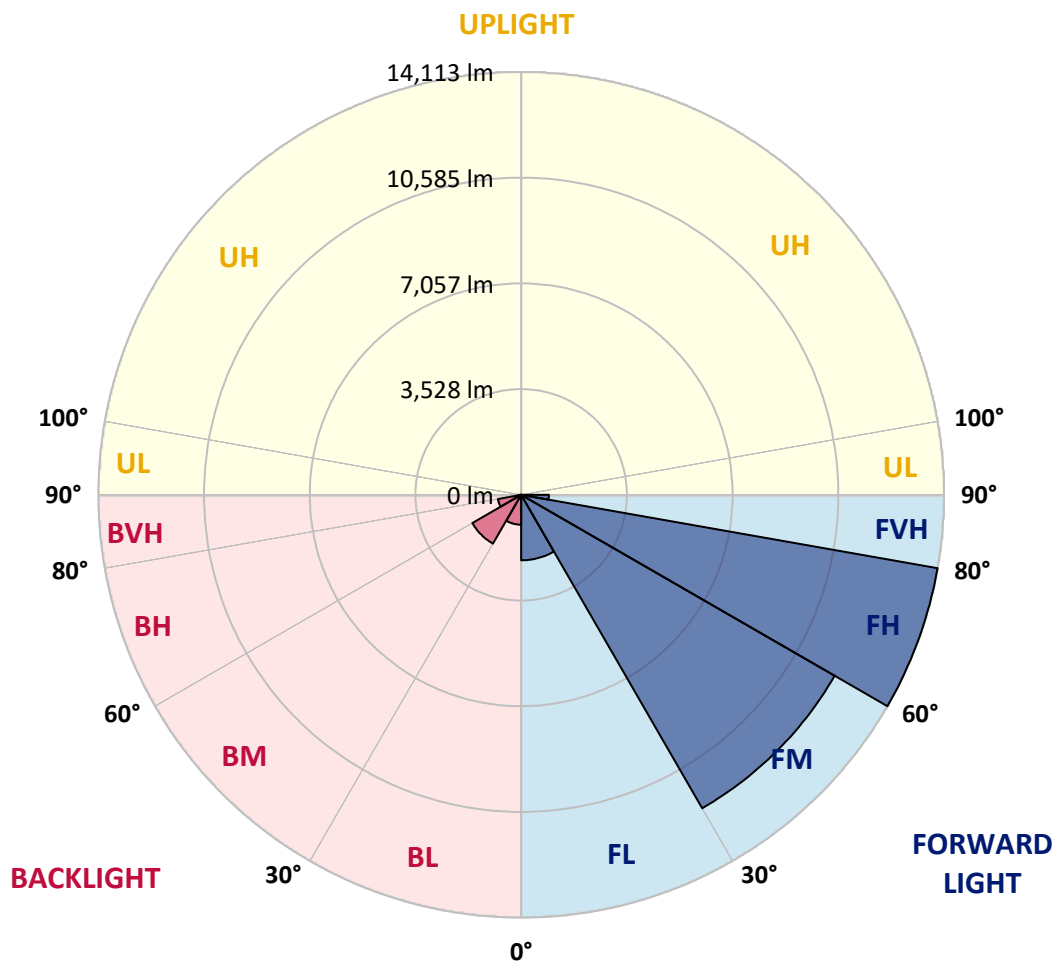
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2186.6	6.6			
FM	(30°-60°)	12080.6	36.5			
FH	(60°-80°)	14113.0	42.7			G5
FVH	(80°-90°)	924.0	2.8			G5
BL	(0°-30°)	997.6	3.0	B2/1000		
BM	(30°-60°)	1881.9	5.7	B2/2500		
BH	(60°-80°)	789.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	91.5	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°	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7
2.5°	5117.2	5115.6	5102.2	5092.0	5083.7	5080.3	5087.0	5061.8	5040.0	5013.1	4984.4
5°	5078.6	5076.9	5055.0	5034.9	5014.7	5008.0	5006.3	4960.9	4934.0	4893.7	4839.9
7.5°	5036.6	5028.1	4999.6	4965.9	4930.6	4913.8	4897.1	4838.1	4808.0	4767.6	4705.4
10°	4992.8	4982.8	4955.9	4922.2	4888.6	4863.4	4834.9	4777.7	4745.8	4715.5	4643.2
12.5°	4947.5	4939.1	4932.4	4917.2	4893.7	4871.8	4850.0	4801.2	4767.6	4732.3	4648.2
15°	4940.8	4937.4	4952.5	4962.6	4949.1	4935.7	4912.2	4870.2	4834.9	4799.5	4690.2
17.5°	4994.6	4992.8	5031.5	5058.4	5051.7	5028.1	4996.2	4949.1	4920.6	4890.3	4754.2
20°	5112.2	5120.6	5167.6	5203.0	5169.4	5135.7	5083.7	5018.1	5002.9	4989.5	4819.7
22.5°	5334.1	5342.6	5376.1	5389.6	5302.2	5253.5	5181.1	5097.1	5087.0	5097.1	4898.7
25°	5680.4	5672.1	5666.9	5616.5	5456.8	5381.2	5288.8	5201.3	5206.3	5251.7	5009.7
27.5°	6139.3	6094.0	6023.3	5872.0	5618.3	5534.2	5421.5	5340.8	5372.7	5460.2	5176.1
30°	6615.1	6564.7	6401.6	6154.5	5830.0	5737.6	5611.5	5520.8	5604.7	5742.6	5398.0
32.5°	7055.6	7048.8	6810.1	6492.4	6122.6	6041.9	5915.8	5813.2	5949.4	6159.5	5730.9
35°	7536.4	7551.5	7265.7	6884.0	6517.6	6433.5	6342.8	6265.5	6447.0	6736.1	6213.3
37.5°	8050.7	8081.0	7743.1	7312.8	6968.1	6932.8	6879.0	6845.4	7126.2	7526.3	6887.4
40°	8738.4	8708.1	8239.1	7796.9	7521.2	7519.5	7502.7	7543.0	8010.4	8558.4	7753.3
42.5°	9474.7	9385.6	8765.3	8316.4	8128.1	8185.2	8218.9	8383.6	9074.6	9812.6	8808.9
45°	10268.2	10068.1	9311.6	8866.1	8802.2	8923.3	9037.6	9395.7	10327.0	11239.8	9965.6
47.5°	10901.9	10708.6	9876.5	9442.8	9582.3	9765.5	9985.7	10552.2	11729.1	12714.2	11107.0
50°	11401.2	11275.1	10446.4	10115.1	10441.3	10723.7	11083.5	11861.8	13188.2	14149.8	12164.4
52.5°	11885.4	11791.2	11021.3	10804.4	11450.0	11839.9	12329.1	13267.3	14684.4	15561.9	13053.7
55°	12322.5	12255.2	11640.0	11663.5	12636.8	13144.5	13759.8	14867.7	16315.0	16821.1	13806.9
57.5°	12815.0	12729.3	12346.0	12741.1	14161.5	14820.5	15620.8	16666.4	17844.9	17940.7	14380.1
60°	13310.9	13237.0	13129.4	13985.1	16098.2	16790.8	17548.9	18409.7	19396.5	18809.8	14346.5
62.5°	13741.3	13749.7	13939.6	15291.3	17994.4	18796.3	19721.0	20571.5	20800.2	18961.1	13285.7
65°	14470.9	14603.6	15170.3	17140.5	20664.0	21736.6	22871.3	22735.2	21188.6	17547.3	11011.1
67.5°	15338.3	15572.0	16720.2	19605.0	24038.0	25461.9	25900.7	23224.4	19633.5	14264.1	7849.0
70°	15250.9	15572.0	17389.2	21442.4	26818.5	27773.4	26441.9	21018.8	15590.5	9318.4	4169.1
72.5°	13542.9	14001.8	16025.9	20600.2	25942.6	25858.7	22955.4	15669.5	9262.8	3742.2	1628.9
75°	10322.0	10785.9	12527.6	16274.7	20504.3	19798.3	16288.1	8656.0	3515.2	1486.0	1027.1
77.5°	5937.6	6297.4	7642.3	9980.6	13008.4	12283.8	9066.1	3849.7	1711.4	1035.5	801.9
80°	3315.1	3515.2	4332.2	5063.5	6374.7	5843.5	4056.5	2392.2	1277.7	751.5	618.7
82.5°	2620.8	2799.0	3503.4	3194.1	2911.6	2686.4	2330.0	2130.0	1020.4	474.0	369.8
85°	2289.7	2459.5	2965.4	2514.9	1988.7	1824.0	1892.9	2096.3	793.5	285.8	316.1
87.5°	2121.5	2348.5	2642.7	1938.3	1548.3	1371.8	1746.7	2298.1	255.5	178.2	127.8
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°	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7
2.5°	4959.3	4932.4	4888.6	4850.0	4789.5	4757.5	4722.2	4697.0	4676.8	4660.0	4686.9
5°	4806.2	4755.8	4663.3	4564.2	4446.5	4354.1	4276.8	4204.4	4154.0	4120.3	4143.9
7.5°	4661.7	4579.3	4434.7	4254.9	4053.1	3881.7	3740.4	3616.0	3530.3	3474.9	3496.7
10°	4579.3	4476.7	4253.2	3970.8	3673.2	3405.9	3184.0	2992.3	2859.6	2783.9	2795.6
12.5°	4559.1	4426.3	4117.0	3728.7	3321.8	2950.3	2637.7	2372.0	2185.4	2087.9	2091.3
15°	4574.2	4404.5	3989.2	3496.7	2982.3	2513.3	2123.2	1800.5	1583.6	1472.6	1471.0
17.5°	4599.5	4387.6	3854.8	3246.2	2637.7	2093.0	1657.6	1341.5	1149.9	1060.8	1054.0
20°	4626.4	4360.7	3703.5	2975.6	2279.5	1702.9	1297.8	1050.7	929.7	880.9	877.5
22.5°	4665.1	4337.2	3547.1	2689.7	1928.3	1386.9	1067.4	901.1	837.2	812.0	808.6
25°	4727.3	4325.4	3380.6	2392.2	1612.2	1159.9	929.7	827.1	790.1	773.4	771.6
27.5°	4831.5	4342.3	3224.3	2103.1	1355.0	1007.0	852.3	790.1	763.2	748.1	746.4
30°	4965.9	4394.4	3059.6	1829.0	1154.9	902.8	805.3	764.9	743.1	727.9	727.9
32.5°	5189.5	4481.9	2886.5	1592.0	1012.0	830.4	770.0	743.1	724.6	712.8	711.1
35°	5519.0	4646.5	2725.0	1395.3	909.5	778.4	739.7	719.5	706.0	699.3	699.3
37.5°	5998.2	4907.1	2582.1	1254.1	847.3	743.1	711.1	696.0	687.5	687.5	687.5
40°	6642.0	5266.9	2466.1	1159.9	812.0	717.8	689.3	677.5	672.5	674.1	674.1
42.5°	7437.2	5734.3	2388.8	1094.4	795.1	702.7	674.1	664.0	659.0	657.3	659.0
45°	8343.3	6265.5	2380.4	1045.7	778.4	692.6	664.0	654.0	643.8	637.1	637.1
47.5°	9224.2	6805.1	2449.4	1028.8	759.8	680.9	655.6	645.6	630.4	615.3	615.3
50°	10002.5	7264.0	2541.8	1035.5	753.1	664.0	642.2	637.1	613.6	596.8	595.2
52.5°	10621.2	7617.1	2617.4	1055.7	759.8	652.2	625.3	627.1	601.8	583.4	581.6
55°	11117.1	7849.0	2597.3	1075.9	775.0	645.6	610.2	613.6	593.4	574.9	574.9
57.5°	11334.0	7763.3	2373.8	1059.1	786.8	647.2	598.4	611.9	595.2	578.3	578.3
60°	10868.3	7001.8	1955.2	985.1	771.6	642.2	593.4	618.7	616.9	600.2	598.4
62.5°	9459.5	5638.4	1516.3	875.9	719.5	616.9	580.0	616.9	635.5	630.4	628.7
65°	7290.9	4016.1	1158.3	758.2	648.9	574.9	544.7	578.3	603.5	610.2	608.6
67.5°	4732.3	2461.1	892.6	647.2	569.9	526.2	499.3	514.4	519.5	519.5	516.1
70°	2326.6	1324.7	711.1	544.7	489.2	474.0	458.9	450.5	442.1	435.4	435.4
72.5°	1148.2	865.7	585.0	460.6	422.0	415.2	411.8	401.8	395.1	386.7	383.3
75°	848.9	704.4	497.6	388.3	363.1	356.4	363.1	354.8	353.0	346.3	342.9
77.5°	697.7	600.2	428.7	332.9	311.0	299.2	309.3	311.0	312.7	302.6	299.2
80°	566.5	507.7	358.0	275.7	255.5	247.1	253.9	267.3	270.7	255.5	248.8
82.5°	408.5	415.2	289.2	215.2	198.4	191.6	205.1	221.9	225.3	203.4	198.4
85°	342.9	346.3	221.9	152.9	136.2	126.1	147.9	164.8	176.6	154.7	149.7
87.5°	142.9	203.4	127.8	85.7	75.7	65.6	79.0	87.5	105.9	97.5	95.9
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)