

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: P192957

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41770.9 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

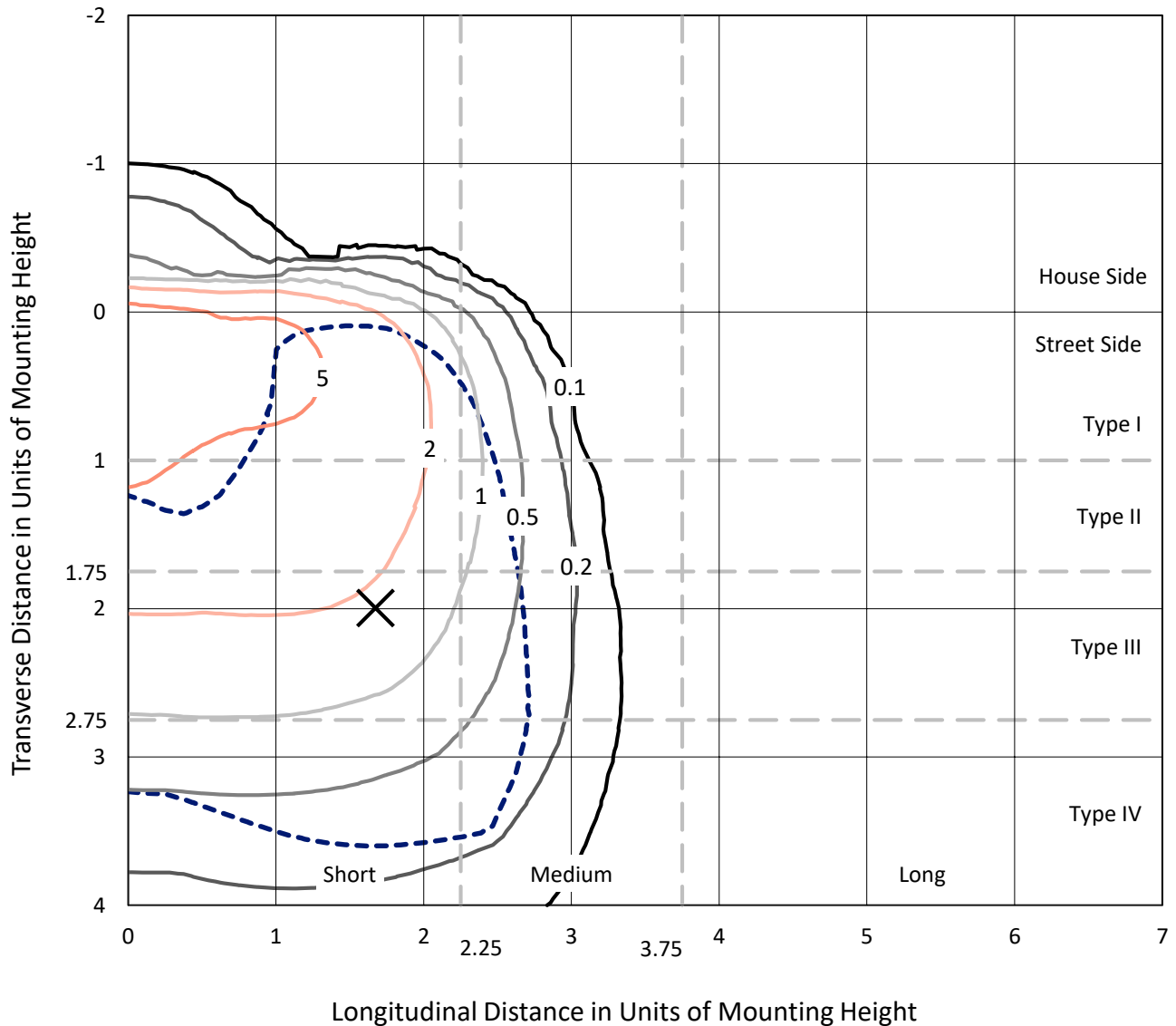
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

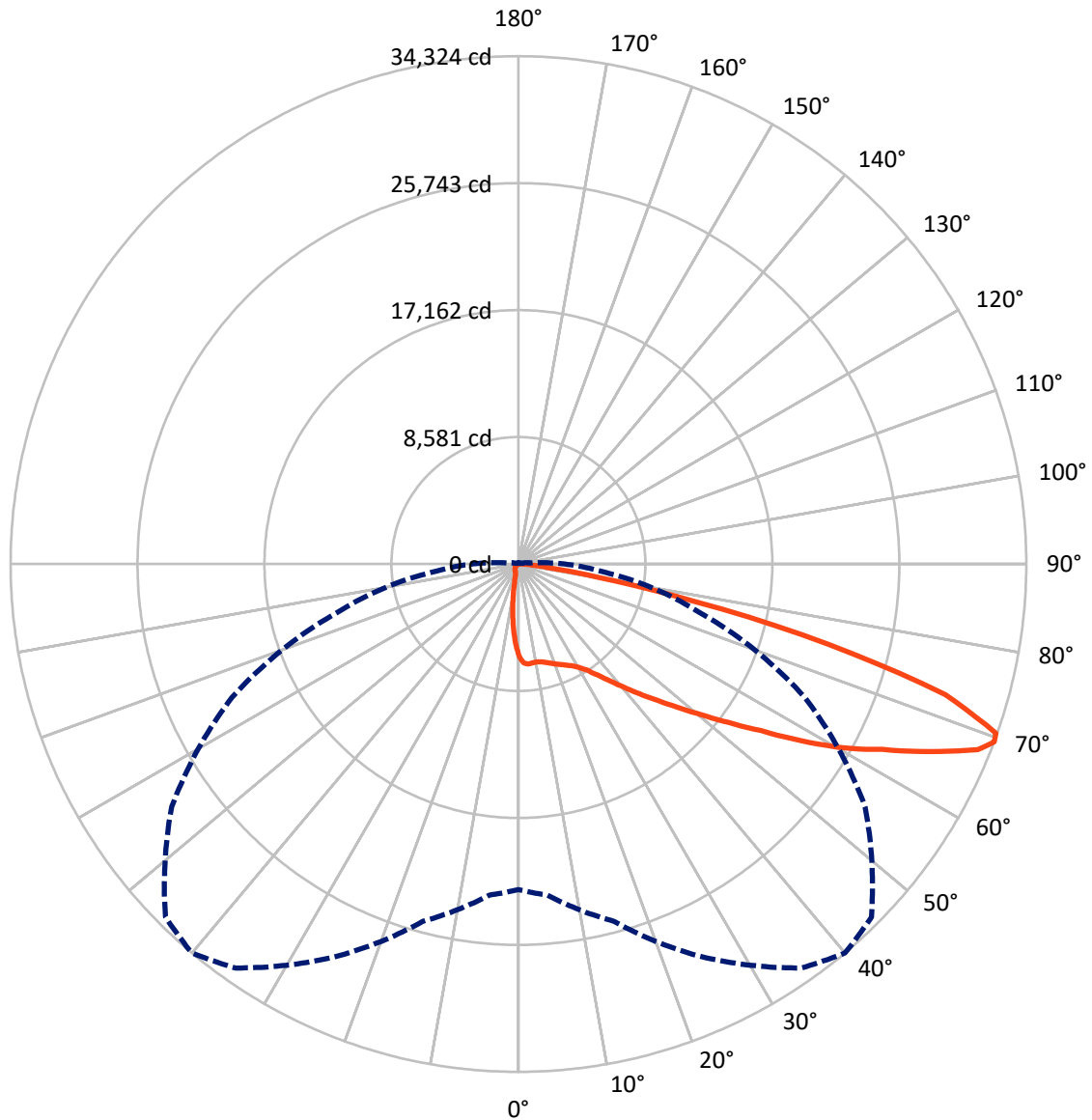


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2443.8	0.0	2443.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	39327.1	0.0	39327.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	41770.9	0.0	41770.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.0	1.2
10°-20°	1244.4	3.0
20°-30°	2095.9	5.0
30°-40°	3431.1	8.2
40°-50°	5940.8	14.2
50°-60°	9357.4	22.4
60°-70°	12220.4	29.3
70°-80°	6294.0	15.1
80°-90°	680.8	1.6
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°	41770.9	100.0
0°-180°	41770.9	100.0

Coefficient of Utilization



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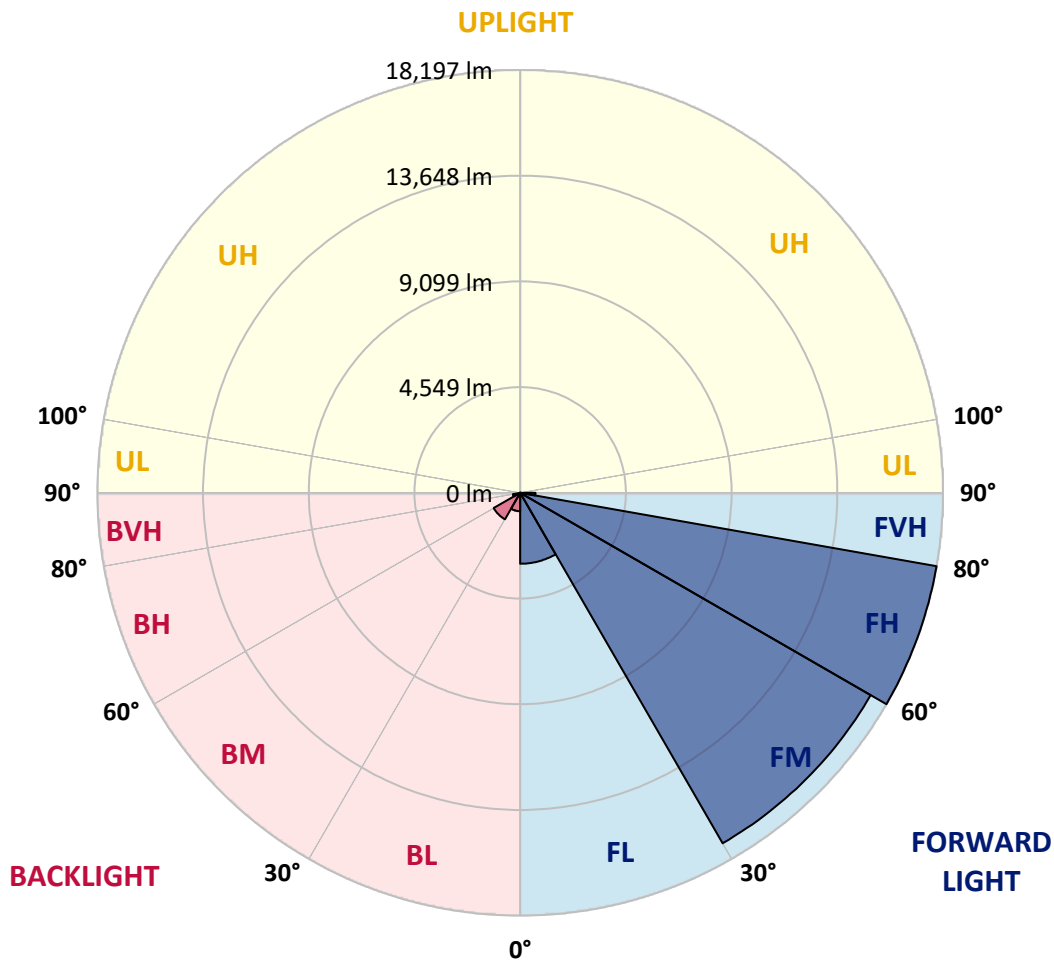
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3054.7	7.3			
FM	(30°-60°)	17415.8	41.7			
FH	(60°-80°)	18197.1	43.6			G5
FVH	(80°-90°)	659.5	1.6			G4/750
BL	(0°-30°)	791.6	1.9	B2/1000		
BM	(30°-60°)	1313.5	3.1	B2/2500		
BH	(60°-80°)	317.3	0.8	B1/500		G1/500
BVH	(80°-90°)	21.4	0.1			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°	40°	45°	55°	65°	75°	85°
0°	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8
2.5°	6852.4	6815.1	6792.7	6762.9	6725.7	6693.3	6680.8	6588.9	6501.9	6382.5	6245.8
5°	6979.3	6966.8	6927.0	6887.2	6842.5	6792.7	6765.5	6656.0	6531.7	6357.7	6118.9
7.5°	6991.7	6976.7	6927.0	6872.3	6810.1	6750.5	6703.3	6593.9	6479.5	6302.9	6012.0
10°	6971.9	6954.4	6917.1	6857.4	6780.3	6723.2	6675.8	6571.5	6474.4	6315.4	5992.1
12.5°	6949.4	6932.0	6914.6	6884.8	6817.7	6777.9	6738.0	6638.6	6551.6	6417.4	6064.2
15°	6971.9	6961.8	6981.7	6969.3	6932.0	6897.2	6857.4	6767.8	6688.3	6576.5	6196.0
17.5°	7066.3	7066.3	7128.4	7135.8	7101.1	7051.4	6994.1	6904.6	6837.6	6743.1	6352.7
20°	7287.6	7280.1	7359.7	7374.6	7290.0	7213.0	7128.4	7019.1	6966.8	6907.2	6506.8
22.5°	7668.0	7633.2	7680.4	7665.5	7498.9	7379.6	7275.1	7140.8	7113.6	7086.1	6678.4
25°	8162.8	8142.9	8175.3	8028.5	7735.1	7573.6	7449.2	7297.5	7297.5	7324.8	6872.3
27.5°	8881.3	8806.8	8697.4	8438.7	7998.7	7792.3	7658.0	7496.4	7538.7	7640.6	7128.4
30°	9617.3	9535.3	9284.1	8886.3	8319.4	8103.1	7946.4	7777.4	7876.8	8063.4	7471.5
32.5°	10343.2	10251.2	9895.7	9393.4	8779.4	8563.0	8411.5	8224.9	8391.5	8704.8	7973.7
35°	11046.9	10964.9	10554.7	9963.0	9391.1	9211.9	9072.8	8911.1	9125.0	9562.6	8682.4
37.5°	11837.5	11748.1	11248.4	10606.9	10134.5	10005.2	9903.3	9741.5	10114.5	10756.0	9669.5
40°	12809.8	12658.1	11984.3	11345.3	10994.8	10932.6	10863.0	10840.6	11419.9	12307.5	10984.8
42.5°	13923.7	13675.0	12755.0	12123.5	11939.6	11984.3	11966.9	12066.4	13053.4	14236.9	12586.0
45°	15037.6	14716.7	13612.8	12954.0	12978.8	13135.4	13232.5	13630.3	15099.7	16449.8	14309.0
47.5°	15982.3	15666.5	14435.9	13851.6	14149.9	14458.3	14721.8	15475.2	17203.2	18627.8	15649.2
50°	16790.4	16492.1	15308.6	14838.6	15510.0	16007.2	16434.9	17551.3	19465.7	20286.2	16589.1
52.5°	17451.9	17252.9	16213.6	15970.0	17064.0	17792.5	18419.0	19756.7	21469.8	21633.9	17320.1
55°	18095.8	17954.0	17185.8	17315.1	18889.0	19881.1	20674.1	22096.4	23195.3	22757.7	18021.2
57.5°	18836.8	18707.5	18294.7	19020.7	21288.3	22536.5	23401.7	24170.0	24714.6	23906.5	18682.6
60°	19592.6	19518.0	19527.9	20915.4	24043.1	25241.6	25719.0	25917.9	26206.4	24988.0	18719.8
62.5°	20313.6	20455.4	20937.7	23023.7	26681.2	27601.2	27842.3	28038.7	27700.6	25159.5	17295.2
65°	21534.5	21765.6	22916.9	25845.9	29582.8	30567.5	30816.0	30142.2	27936.8	22941.7	14067.9
67.5°	22131.2	22553.9	24607.6	28476.4	32397.4	33491.3	33399.4	30279.0	25070.1	17494.0	9028.0
69°	22006.9	22456.9	24998.0	29282.0	33332.3	34324.4	33740.1	28605.7	21357.9	12673.0	5542.0
70°	21514.6	21969.6	24796.6	29252.1	33451.6	34237.3	33108.5	26539.5	18058.5	9266.8	3466.0
72.5°	17966.5	18359.4	22014.3	26440.0	30816.0	30177.1	27698.2	18386.7	8799.3	2523.7	780.7
75°	11059.3	11278.2	15795.9	19918.3	23275.0	21633.9	18453.9	9147.4	2623.1	713.6	432.6
77.5°	5842.9	5942.4	8647.6	11740.7	14754.2	12208.1	9458.1	3568.0	1208.4	447.5	313.2
80°	3453.5	3528.2	4656.9	5368.1	6385.0	5333.3	3781.8	2190.5	865.3	280.9	278.5
82.5°	1976.7	2023.9	3376.4	2983.7	2516.2	2148.2	1882.2	2076.2	519.6	189.0	288.5
85°	726.0	736.0	1899.6	2270.1	1496.8	890.1	934.8	1720.7	139.2	119.3	226.2
87.5°	338.1	330.7	977.1	1389.9	875.1	564.5	728.5	377.9	54.7	77.0	62.2
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°	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8	6240.8
2.5°	6166.1	6074.2	5907.6	5736.0	5562.1	5427.8	5296.1	5191.6	5156.7	5092.1	5097.1
5°	5977.2	5808.1	5460.1	5107.0	4739.0	4435.7	4149.7	3918.5	3806.6	3692.3	3692.3
7.5°	5813.1	5567.0	5022.4	4448.2	3853.9	3354.2	2904.1	2566.0	2379.4	2230.3	2227.8
10°	5751.0	5417.8	4656.9	3834.0	3006.0	2324.7	1790.2	1447.0	1270.5	1156.2	1151.1
12.5°	5778.2	5365.6	4376.1	3267.1	2227.8	1494.3	1036.9	815.5	740.9	706.2	706.2
15°	5857.9	5350.7	4095.0	2712.6	1573.9	934.8	688.8	629.0	624.1	624.1	624.1
17.5°	5954.8	5355.7	3806.6	2173.0	1071.7	668.8	594.3	586.8	591.7	591.7	591.7
20°	6054.3	5358.1	3495.9	1673.3	755.8	581.8	559.4	556.9	561.9	561.9	564.5
22.5°	6176.1	5370.5	3185.0	1250.7	624.1	549.5	532.1	532.1	534.6	534.6	532.1
25°	6315.4	5395.4	2861.8	927.4	569.4	527.0	512.2	509.7	512.2	509.7	507.2
27.5°	6489.5	5430.1	2501.3	726.0	544.5	504.8	492.3	492.3	489.8	487.3	484.9
30°	6708.2	5470.1	2096.0	616.7	519.6	484.9	472.4	470.0	467.4	462.5	462.5
32.5°	7041.4	5557.0	1695.7	559.4	492.3	457.5	447.5	447.5	442.6	437.6	435.1
35°	7553.6	5728.6	1337.7	524.7	462.5	427.6	415.1	415.1	410.3	407.7	405.3
37.5°	8262.1	5989.7	1039.3	492.3	432.6	395.3	383.0	380.4	375.5	370.5	367.9
40°	9204.5	6312.9	818.1	462.5	402.8	363.0	353.0	348.1	338.1	330.7	330.7
42.5°	10388.1	6680.8	663.9	430.2	367.9	333.1	325.7	318.3	300.9	293.4	290.9
45°	11626.3	7011.6	561.9	392.9	333.1	303.3	298.4	285.9	263.6	256.1	256.1
47.5°	12518.9	7088.6	494.8	358.1	300.9	271.0	268.6	246.2	226.2	221.2	218.8
50°	13075.8	6937.0	440.1	323.2	271.0	241.1	233.7	206.4	193.9	189.0	186.5
52.5°	13451.2	6665.9	395.3	293.4	243.6	213.8	196.4	176.6	166.6	161.6	161.6
55°	13752.1	6283.1	350.6	266.0	221.2	191.4	166.6	151.7	141.7	136.8	136.8
57.5°	13836.7	5763.4	305.8	243.6	199.0	169.1	141.7	131.7	119.3	116.9	116.9
60°	13222.5	4826.1	271.0	216.4	178.9	146.7	124.3	111.9	99.4	97.0	94.5
62.5°	11603.9	3734.5	238.7	191.4	156.7	126.8	107.0	92.0	82.1	82.1	82.1
65°	8851.5	2503.7	208.9	166.6	136.8	107.0	92.0	74.7	69.6	69.6	72.1
67.5°	5298.4	1362.6	178.9	141.7	116.9	89.5	77.0	64.7	62.2	64.7	64.7
69°	3105.4	800.7	161.6	126.8	101.9	79.5	67.0	57.2	62.2	64.7	64.7
70°	1917.0	539.5	149.1	114.4	92.0	72.1	62.2	54.7	59.6	62.2	62.2
72.5°	534.6	278.5	119.3	89.5	74.7	59.6	49.7	49.7	57.2	59.6	59.6
75°	348.1	206.4	92.0	67.0	57.2	47.2	42.3	47.2	54.7	57.2	57.2
77.5°	288.5	169.1	74.7	54.7	47.2	44.8	39.8	42.3	49.7	52.2	52.2
80°	263.6	119.3	59.6	49.7	42.3	39.8	37.2	34.9	44.8	47.2	47.2
82.5°	251.1	94.5	52.2	44.8	39.8	34.9	32.3	34.9	39.8	42.3	44.8
85°	156.7	62.2	47.2	42.3	34.9	32.3	32.3	32.3	37.2	39.8	39.8
87.5°	57.2	49.7	42.3	34.9	29.8	29.8	29.8	29.8	32.3	37.2	37.2
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)