

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: P191967

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42997 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

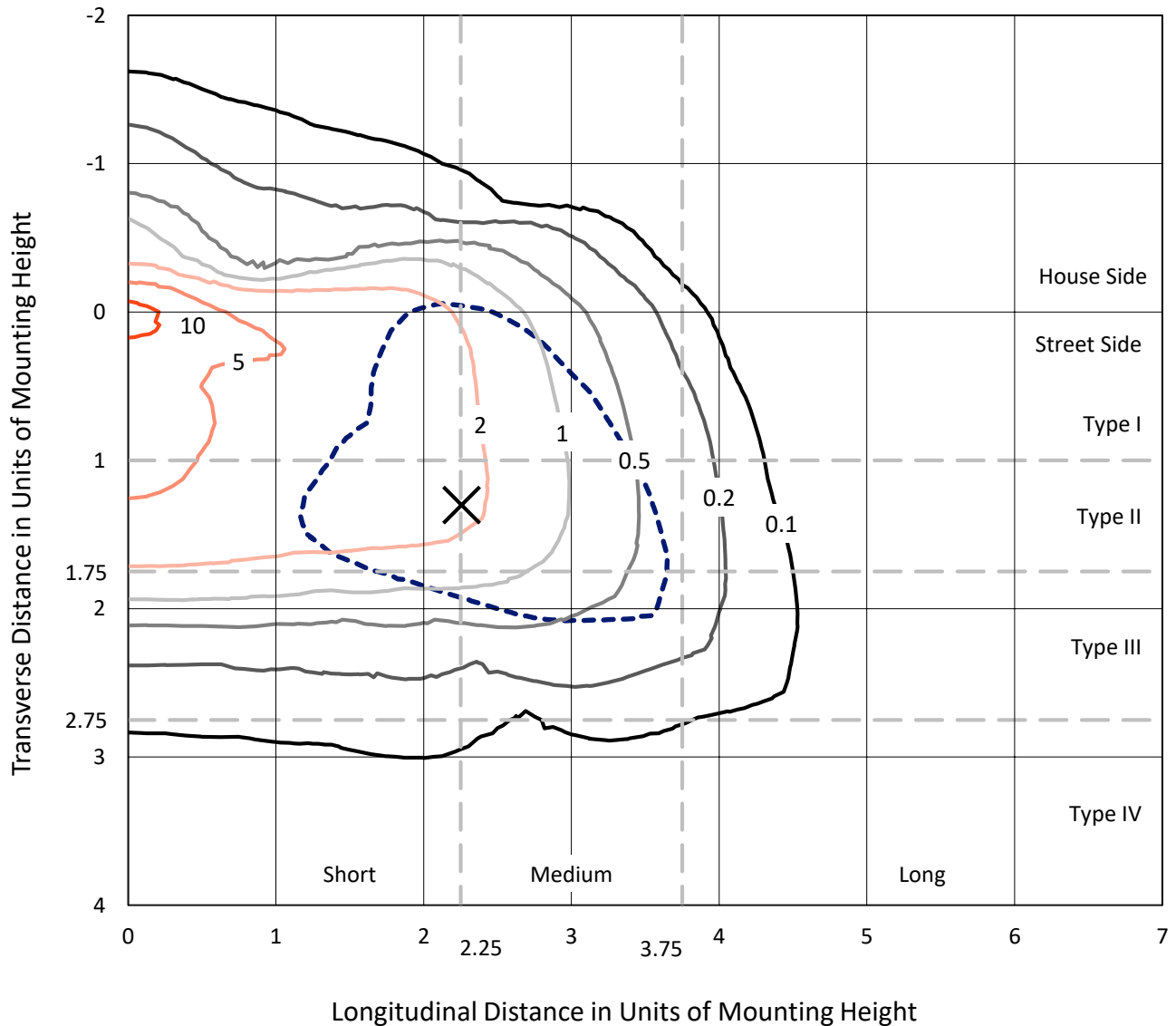
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

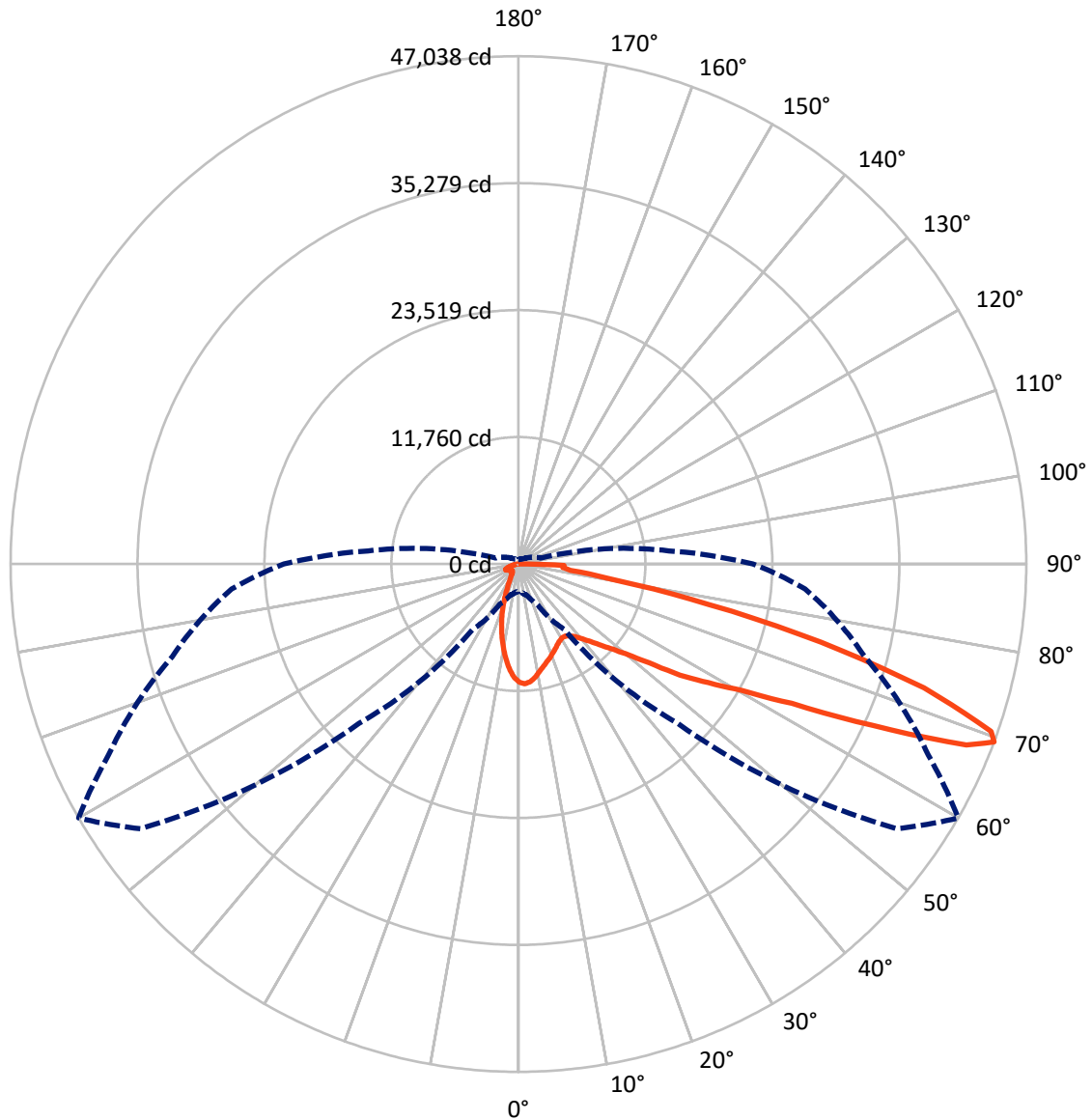
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6117.1	0.0	6117.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	36879.9	0.0	36879.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	42997.0	0.0	42997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.4	2.2
10°-20°	1973.7	4.6
20°-30°	2514.9	5.8
30°-40°	3457.3	8.0
40°-50°	5609.9	13.0
50°-60°	8996.8	20.9
60°-70°	11974.1	27.8
70°-80°	6465.1	15.0
80°-90°	1078.7	2.5
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°	42997.0	100.0
0°-180°	42997.0	100.0

Coefficient of Utilization



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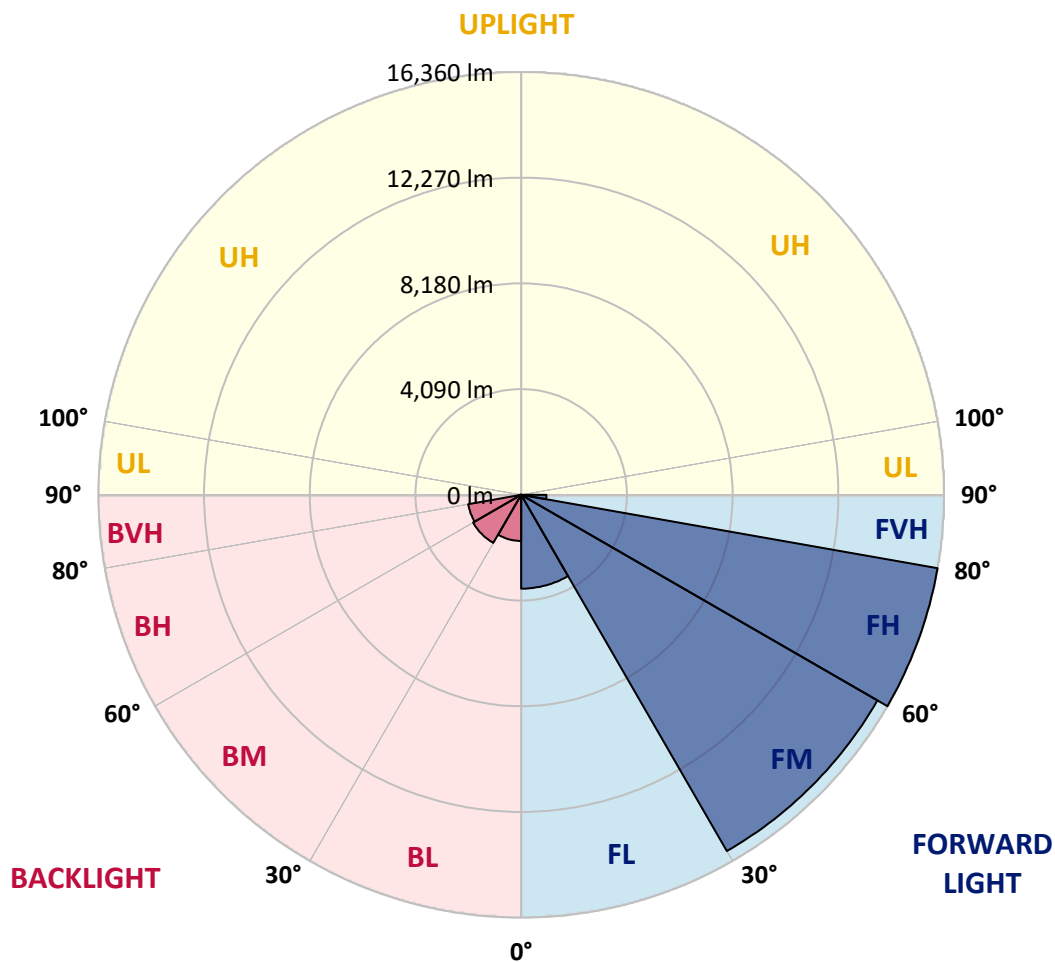
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3630.5	8.4			
FM	(30°-60°)	15915.0	37.0			
FH	(60°-80°)	16359.5	38.0			G5
FVH	(80°-90°)	974.9	2.3			G5
BL	(0°-30°)	1784.6	4.2	B3/2500		
BM	(30°-60°)	2149.1	5.0	B2/2500		
BH	(60°-80°)	2079.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	103.9	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3
2.5°	11180.6	11205.5	11195.1	11188.9	11207.6	11178.5	11118.3	11099.6	11070.5	11002.0	10885.7
5°	10761.0	10835.8	10831.7	10887.7	10981.2	11006.1	10979.1	10983.3	10929.3	10844.1	10651.0
7.5°	10036.2	10067.3	10083.9	10206.5	10376.8	10513.9	10630.2	10667.6	10642.7	10570.0	10320.7
10°	9288.4	9313.4	9352.8	9496.1	9712.2	9901.2	10121.3	10248.0	10302.0	10289.6	10011.2
12.5°	8646.6	8671.6	8723.5	8885.5	9143.0	9375.7	9695.5	9853.4	9982.2	10059.0	9759.9
15°	8071.3	8125.3	8175.2	8362.1	8650.8	8956.1	9317.5	9516.9	9716.3	9888.7	9537.7
17.5°	7622.7	7676.7	7705.7	7876.1	8183.5	8557.3	8981.0	9215.7	9465.0	9747.5	9317.5
20°	7363.0	7388.0	7375.5	7471.0	7747.3	8144.0	8646.6	8918.7	9219.9	9614.5	9097.4
22.5°	7290.3	7292.4	7246.7	7236.3	7415.0	7749.4	8289.4	8619.6	8989.3	9527.3	8908.3
25°	7466.9	7460.7	7336.0	7234.3	7253.0	7448.2	7944.6	8328.9	8796.2	9508.6	8763.0
27.5°	7859.4	7878.1	7693.3	7502.2	7313.2	7307.0	7682.9	8087.9	8638.3	9593.8	8700.6
30°	8409.9	8441.0	8243.7	8000.7	7645.5	7352.7	7581.1	7944.6	8540.7	9770.3	8690.3
32.5°	9012.2	9045.4	8895.9	8640.4	8175.2	7635.1	7651.7	7957.1	8536.6	10017.5	8760.9
35°	9654.0	9691.4	9614.5	9398.5	8881.3	8156.5	7921.8	8158.5	8671.6	10395.5	8949.9
37.5°	10370.6	10428.7	10449.5	10243.9	9691.4	8844.0	8364.2	8540.7	8976.9	10921.0	9296.7
40°	11402.8	11483.9	11477.6	11182.7	10619.8	9772.4	9047.5	9093.2	9452.5	11623.0	9851.3
42.5°	13380.2	13396.8	12879.6	12237.8	11641.7	10748.6	9853.4	9816.0	10108.9	12512.0	10667.6
45°	15895.4	15826.9	14676.2	13436.3	12709.3	11870.2	10902.3	10719.5	10941.7	13596.2	11689.5
47.5°	17982.9	17825.0	16371.1	14659.6	13839.2	13089.4	12134.0	11814.1	11936.6	14825.8	13010.5
50°	18707.7	18589.3	17384.7	15677.4	14908.9	14576.5	13650.2	13197.4	13230.6	16292.2	14557.8
52.5°	18552.0	18535.3	17731.5	16348.2	15910.0	16138.5	15797.8	15185.1	14861.1	17920.5	16227.8
55°	18184.3	18219.6	17928.8	17129.2	17054.4	17646.4	18603.9	18151.1	17143.7	19563.5	17953.8
57.5°	16907.0	16998.3	17638.1	18111.6	18896.7	19777.4	20863.7	20734.9	19600.9	21339.3	20005.9
60°	13621.1	13833.0	15548.6	17920.5	20793.1	23547.2	24033.2	23734.1	22134.8	23543.0	22716.4
62.5°	9543.9	9764.1	11803.7	15515.4	20481.5	27805.1	29699.3	28409.5	25773.8	26789.4	26224.5
65°	5109.5	5215.4	6773.2	10765.2	17291.2	28683.7	37980.4	36017.6	31535.4	30791.8	29225.8
67.5°	2818.5	2876.7	3472.8	5435.6	11074.7	25258.7	43256.1	44739.0	38736.5	33456.7	28679.5
69°	2548.5	2602.5	2993.0	4116.7	7410.8	20884.5	42740.9	47038.3	41893.5	33192.9	26660.6
70°	2492.4	2542.3	2893.3	3794.7	5998.4	17214.4	41014.9	46450.5	42645.4	32247.8	24899.3
72.5°	2243.2	2297.2	2637.8	3408.4	5126.1	8582.3	32488.8	39274.4	38717.8	27960.9	18886.4
75°	2091.6	2141.4	2718.8	3337.8	4908.0	5431.4	21418.2	28945.4	28461.4	19559.3	10183.6
77.5°	895.2	891.0	1260.8	2824.7	4980.7	5259.0	11508.8	18082.5	16497.8	8360.0	2924.4
80°	598.2	587.8	598.2	830.8	4567.4	5288.1	6029.6	9178.4	6933.1	2131.0	1441.5
82.5°	515.1	506.8	525.5	506.8	1605.5	6035.8	5126.1	4881.0	3296.2	1210.9	714.5
85°	346.9	332.3	452.8	454.9	758.1	5362.9	5774.1	4122.9	2666.9	718.6	353.1
87.5°	166.2	162.0	263.8	321.9	444.5	2178.8	6478.2	4224.7	2689.7	367.6	168.2
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°	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3	10956.3
2.5°	10850.4	10765.2	10682.1	10582.4	10478.6	10362.3	10304.1	10245.9	10231.4	10214.8	10156.6
5°	10551.3	10430.8	10223.1	9994.6	9753.7	9519.0	9340.4	9228.2	9143.0	9099.4	9022.6
7.5°	10164.9	9988.4	9624.9	9230.3	8825.3	8455.6	8135.7	7934.2	7743.1	7653.8	7552.1
10°	9797.3	9533.5	8968.6	8387.0	7805.4	7246.7	6721.2	6349.5	6019.2	5834.4	5703.5
12.5°	9481.6	9120.2	8337.2	7550.0	6752.4	5956.9	5169.7	4550.8	4033.6	3761.5	3622.3
15°	9174.2	8738.0	7736.9	6737.9	5713.9	4631.8	3597.4	2895.4	2467.5	2297.2	2239.0
17.5°	8895.9	8337.2	7134.6	5919.5	4642.1	3333.6	2417.7	2031.3	1867.2	1811.2	1792.5
20°	8594.7	7932.1	6509.4	5063.8	3524.7	2330.4	1888.0	1717.7	1651.2	1634.6	1626.3
22.5°	8303.9	7533.4	5911.2	4147.8	2531.9	1798.7	1622.2	1551.5	1541.1	1555.7	1555.7
25°	8056.8	7176.1	5265.2	3190.3	1858.9	1514.1	1451.8	1435.2	1474.7	1528.7	1539.1
27.5°	7871.9	6883.2	4577.8	2355.3	1480.9	1316.8	1314.8	1341.8	1439.4	1543.2	1564.0
30°	7745.2	6604.9	3842.5	1699.0	1242.1	1159.0	1192.2	1250.4	1393.7	1541.1	1580.6
32.5°	7680.8	6399.3	3076.1	1314.8	1063.4	1017.7	1073.8	1144.4	1285.7	1422.8	1474.7
35°	7730.7	6247.7	2353.3	1096.7	938.8	903.5	961.7	1030.2	1113.3	1171.4	1210.9
37.5°	7917.6	6187.4	1775.9	982.4	853.7	820.4	866.1	905.6	938.8	955.4	974.1
40°	8320.5	6251.8	1422.8	924.3	805.9	764.3	783.0	797.6	818.3	835.0	843.3
42.5°	8914.6	6445.0	1275.3	901.4	781.0	720.7	716.6	722.8	749.8	781.0	787.2
45°	9745.4	6785.6	1264.9	916.0	768.5	685.4	666.7	675.0	716.6	764.3	772.7
47.5°	10806.7	7304.9	1348.0	959.6	778.9	666.7	635.6	646.0	697.9	762.3	772.7
50°	12092.4	8029.8	1487.1	1024.0	824.6	670.9	625.2	631.4	685.4	756.0	766.4
52.5°	13610.7	9057.9	1638.8	1086.3	872.3	697.9	633.5	619.0	668.8	731.1	743.6
55°	15299.3	10376.8	1794.5	1142.4	897.3	731.1	650.1	602.3	637.6	689.6	700.0
57.5°	17372.2	12221.2	2064.6	1196.4	913.9	754.0	666.7	585.7	598.2	635.6	643.9
60°	20178.3	14829.9	2540.2	1285.7	951.3	762.3	664.6	571.2	558.7	579.5	583.6
62.5°	23541.0	17663.0	2936.9	1397.8	1013.6	768.5	652.2	560.8	525.5	525.5	529.6
65°	25537.0	18421.1	2716.7	1491.3	1065.5	762.3	637.6	550.4	500.6	477.7	479.8
67.5°	23844.2	16200.8	2328.3	1510.0	1063.4	733.2	614.8	531.7	475.6	440.3	438.3
69°	21723.6	13978.4	2153.9	1460.1	1013.6	695.8	585.7	510.9	456.9	419.6	417.5
70°	20014.2	12622.1	2039.6	1406.1	959.6	668.8	562.9	492.3	442.4	407.1	402.9
72.5°	14551.6	8270.7	1742.6	1208.8	791.3	560.8	486.0	432.0	394.6	373.9	369.7
75°	7271.7	3944.3	1414.5	980.4	606.5	448.6	398.8	361.4	342.7	338.6	336.5
77.5°	2388.6	1807.0	1011.5	731.1	450.7	351.0	321.9	294.9	290.8	303.2	299.1
80°	1312.7	1051.0	641.8	483.9	307.4	257.6	253.4	238.9	245.1	265.9	261.7
82.5°	668.8	546.3	396.7	290.8	207.7	184.9	201.5	193.2	201.5	220.2	218.1
85°	330.2	299.1	251.3	176.5	137.1	118.4	143.3	149.5	153.7	168.2	168.2
87.5°	191.1	176.5	132.9	83.1	68.5	62.3	83.1	81.0	95.5	103.9	101.8
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)