

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: P320049

Luminaire Tested: **GAN-SA5C-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA 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: 33591 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

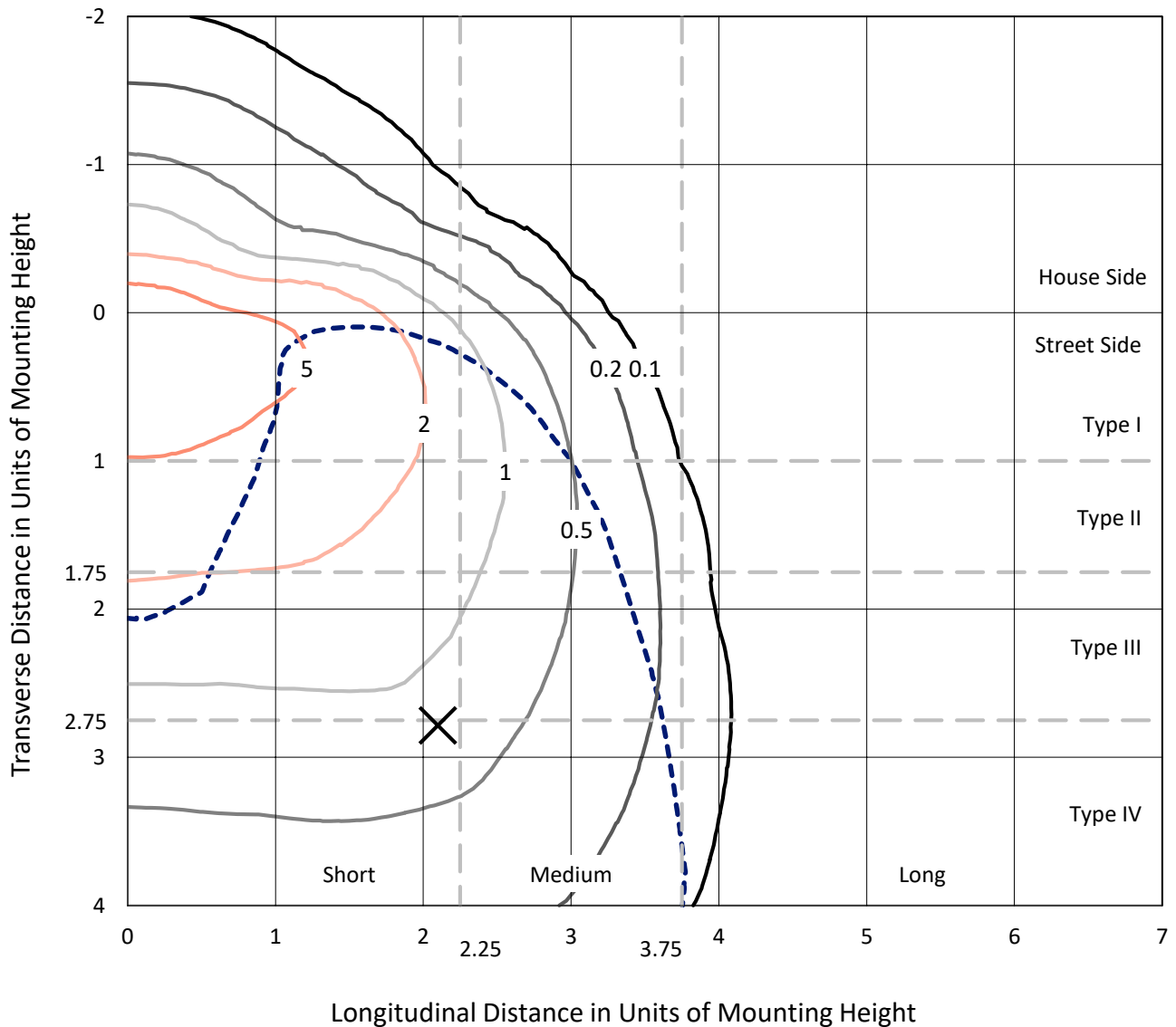
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

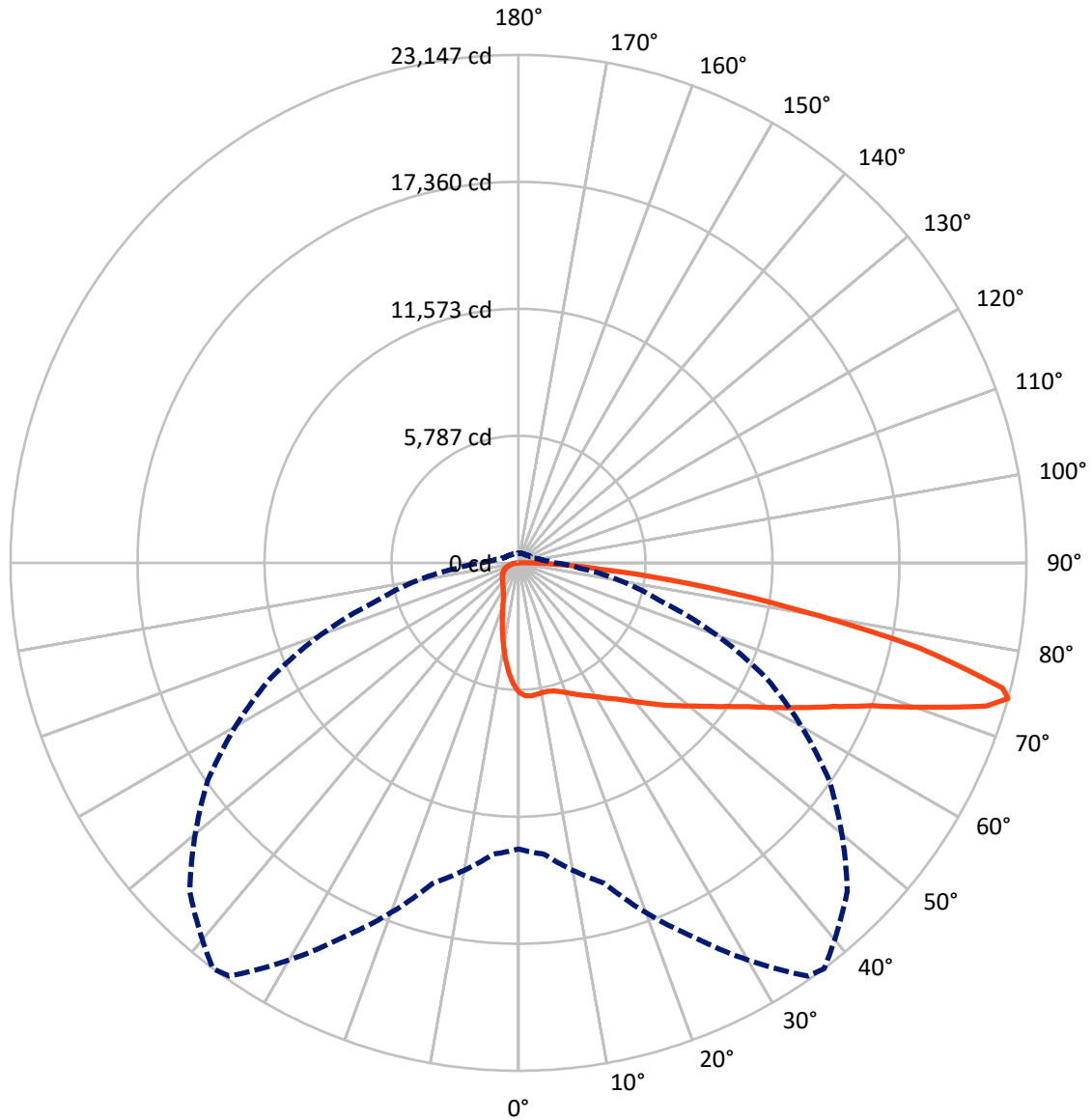
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4621.9	0.0	4621.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	28969.1	0.0	28969.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	33591.0	0.0	33591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.2	1.6
10°-20°	1336.0	4.0
20°-30°	2058.5	6.1
30°-40°	2993.3	8.9
40°-50°	4405.7	13.1
50°-60°	6186.9	18.4
60°-70°	7830.8	23.3
70°-80°	6895.3	20.5
80°-90°	1363.4	4.1
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°	33591.0	100.0
0°-180°	33591.0	100.0

Coefficient of Utilization



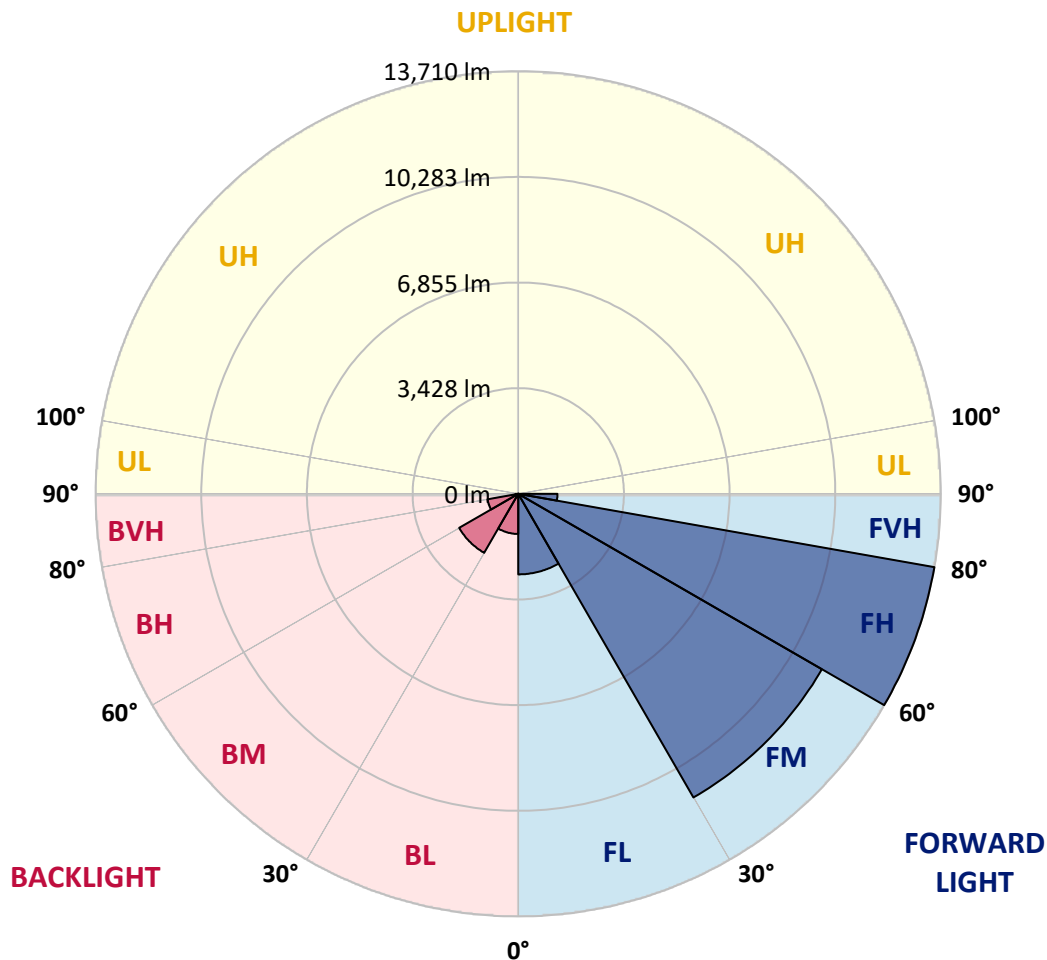
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2613.8	7.8			
FM (30°-60°)	11374.2	33.9			
FH (60°-80°)	13710.1	40.8			G5
FVH (80°-90°)	1271.0	3.8			G5
BL (0°-30°)	1301.9	3.9	B3/2500		
BM (30°-60°)	2211.7	6.6	B2/2500		
BH (60°-80°)	1015.9	3.0	B3/2500		G3/2500
BVH (80°-90°)	92.3	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°	37°	45°	55°	65°	75°	85°
0°	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6
2.5°	6120.9	6122.1	6120.9	6111.5	6089.0	6070.1	6054.7	6032.2	5982.5	5944.6	5887.8
5°	6178.9	6171.8	6167.1	6149.3	6113.8	6092.5	6063.0	6020.4	5938.7	5863.0	5770.7
7.5°	6151.7	6143.4	6132.8	6111.5	6071.2	6053.5	6012.1	5956.5	5858.3	5758.9	5626.3
10°	6067.7	6065.3	6060.6	6055.9	6021.5	6007.3	5969.5	5910.3	5813.3	5692.6	5537.6
12.5°	5974.2	5980.1	5999.1	6023.9	6008.5	6001.4	5977.8	5937.5	5838.1	5708.0	5521.0
15°	5915.1	5931.6	5982.5	6047.6	6060.6	6058.2	6052.3	6026.3	5921.0	5776.6	5558.9
17.5°	5894.9	5922.2	6019.2	6126.9	6164.7	6173.0	6175.4	6130.4	6013.3	5860.6	5597.9
20°	5931.6	5965.9	6107.9	6255.8	6316.2	6320.9	6310.3	6232.2	6100.8	5932.8	5619.2
22.5°	6042.8	6073.6	6251.1	6417.9	6486.6	6493.7	6461.7	6343.4	6193.1	6018.0	5648.8
25°	6257.0	6294.9	6472.4	6639.2	6674.7	6675.9	6629.7	6483.0	6313.8	6137.5	5712.7
27.5°	6536.3	6574.1	6733.9	6897.1	6878.2	6867.6	6804.9	6658.1	6471.2	6302.0	5826.3
30°	6847.5	6888.9	7040.3	7156.3	7111.3	7090.0	7039.1	6849.8	6690.1	6526.8	6000.2
32.5°	7169.3	7207.2	7339.7	7419.0	7362.2	7352.7	7275.8	7103.0	6975.2	6869.9	6281.9
35°	7499.4	7526.6	7656.8	7701.8	7626.0	7623.7	7602.4	7443.8	7363.3	7413.0	6691.3
37.5°	7836.6	7843.7	7955.0	7957.3	7934.9	7944.3	7966.8	7867.4	7889.9	8044.9	7223.7
40°	8137.2	8156.1	8236.6	8261.4	8300.5	8333.6	8446.0	8380.9	8554.9	8829.4	7886.3
42.5°	8359.6	8396.3	8525.3	8589.2	8715.8	8767.9	8926.4	8986.8	9337.0	9748.8	8674.4
45°	8547.8	8604.6	8811.6	8943.0	9157.2	9248.3	9475.4	9677.8	10220.9	10746.3	9503.8
47.5°	8751.3	8823.5	9082.6	9333.5	9624.5	9727.5	10140.4	10443.3	11163.9	11749.6	10286.0
50°	9050.7	9106.3	9359.5	9753.5	10116.8	10249.3	10820.8	11255.1	12122.4	12705.7	10964.0
52.5°	9468.3	9447.0	9661.2	10213.8	10701.3	10864.6	11547.3	12118.8	13093.8	13570.7	11536.7
55°	9888.4	9852.9	10003.2	10695.4	11382.8	11554.4	12347.2	12986.1	14017.9	14349.2	11975.6
57.5°	10355.8	10288.3	10414.9	11238.5	12159.1	12363.8	13242.9	13907.9	14926.7	14978.7	12254.9
60°	10837.4	10746.3	10888.2	11911.8	13144.7	13386.1	14291.3	14807.2	15783.3	15482.8	12344.8
62.5°	11258.6	11194.7	11413.6	12663.1	14255.8	14520.8	15320.7	15763.2	16628.2	15692.2	12020.6
65°	11626.6	11637.2	12015.9	13508.0	15494.6	15777.4	16501.6	16941.7	17293.2	15568.0	11262.1
67.5°	12065.6	12125.9	12772.0	14620.2	17054.1	17364.2	18219.6	18226.7	17664.7	14839.1	9768.9
70°	12705.7	12830.0	13812.0	16163.2	19271.6	19697.5	20357.8	18981.7	17142.9	12863.1	7686.4
72.5°	13273.7	13505.6	14918.4	17928.6	21974.1	22297.1	21608.5	18546.2	14962.2	9639.9	4788.6
74°	13042.9	13330.5	15119.5	18798.3	22991.7	23146.7	21186.0	17275.4	12475.0	6675.9	2783.0
75°	12546.0	12858.4	14826.1	18790.0	22862.7	22776.3	20166.1	15823.6	10274.1	4553.1	1851.8
77.5°	10125.0	10455.2	12492.7	16104.0	18746.2	18664.5	15491.1	10614.9	4499.9	1493.3	940.7
80°	5886.7	6138.7	7755.0	10226.8	12640.6	12788.5	10187.8	5252.4	1770.1	838.9	637.8
82.5°	2615.0	2788.9	3746.2	5220.5	7628.4	7818.9	5335.3	2752.2	1093.3	510.0	383.4
85°	1715.7	1844.7	2274.2	2486.0	3632.6	3762.7	2611.4	2142.9	721.8	280.4	281.6
87.5°	1234.1	1358.4	1689.7	1475.5	1667.2	1578.5	1421.1	1983.1	289.9	159.7	94.7
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°	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6	5918.6
2.5°	5863.0	5844.1	5801.5	5721.0	5676.0	5638.2	5575.5	5538.8	5522.2	5521.0	5528.1
5°	5717.5	5673.7	5563.6	5428.7	5321.1	5222.9	5101.0	5027.6	4975.6	4944.8	4953.1
7.5°	5548.2	5479.6	5306.9	5091.5	4918.8	4728.3	4540.1	4427.7	4340.2	4275.1	4286.9
10°	5432.3	5337.6	5085.6	4775.6	4488.1	4211.2	3952.0	3797.0	3674.0	3579.3	3586.4
12.5°	5393.2	5265.5	4916.4	4502.3	4098.8	3720.1	3381.7	3143.9	3017.3	2909.6	2917.9
15°	5399.2	5227.6	4774.4	4256.1	3748.5	3271.7	2861.1	2583.0	2411.5	2336.9	2338.1
17.5°	5403.9	5183.8	4625.3	3992.3	3401.8	2852.8	2406.7	2125.1	1963.0	1894.4	1895.6
20°	5388.5	5112.8	4440.7	3689.4	3039.8	2468.3	2036.4	1797.4	1674.3	1621.0	1621.0
22.5°	5368.4	5028.8	4232.5	3385.3	2682.4	2134.6	1771.3	1589.1	1518.1	1482.6	1481.4
25°	5377.9	4966.1	4019.5	3072.9	2353.5	1868.3	1595.0	1474.3	1427.0	1404.5	1403.3
27.5°	5428.7	4936.5	3823.1	2761.7	2066.0	1668.4	1476.7	1391.5	1360.7	1346.5	1346.5
30°	5521.0	4936.5	3618.4	2496.7	1826.9	1520.5	1385.6	1327.6	1306.3	1296.8	1296.8
32.5°	5682.0	4963.7	3420.8	2234.0	1636.4	1404.5	1309.9	1270.8	1254.2	1249.5	1249.5
35°	5958.8	5056.0	3227.9	1985.5	1482.6	1309.9	1237.7	1215.2	1203.4	1202.2	1205.7
37.5°	6348.1	5244.2	3046.9	1802.1	1373.8	1232.9	1177.3	1159.6	1152.5	1158.4	1163.1
40°	6838.0	5499.7	2882.4	1636.4	1290.9	1171.4	1121.7	1109.9	1106.3	1114.6	1121.7
42.5°	7429.6	5845.2	2747.5	1516.9	1227.0	1119.4	1074.4	1060.2	1056.6	1066.1	1075.6
45°	8069.7	6216.8	2652.8	1428.2	1177.3	1080.3	1033.0	1017.6	1010.5	1015.2	1025.9
47.5°	8651.9	6568.2	2615.0	1365.5	1130.0	1047.2	996.3	977.4	965.5	963.2	971.4
50°	9143.0	6829.7	2632.7	1327.6	1092.1	1010.5	960.8	939.5	921.7	911.1	917.0
52.5°	9500.3	6994.2	2649.3	1311.0	1062.6	970.3	921.7	901.6	878.0	860.2	860.2
55°	9759.4	7032.0	2612.6	1298.0	1040.1	926.5	878.0	859.0	835.4	815.3	812.9
57.5°	9861.2	6925.5	2476.5	1279.1	1024.7	885.1	831.8	817.6	797.5	773.8	772.7
60°	9723.9	6596.6	2213.9	1238.9	1004.6	850.8	785.7	776.2	766.7	744.3	743.1
62.5°	9172.5	5874.8	1874.3	1157.2	964.3	814.1	743.1	747.8	749.0	733.6	731.2
65°	8172.7	4883.3	1543.0	1050.7	904.0	770.3	699.3	721.8	734.8	732.4	728.9
67.5°	6719.7	3800.6	1307.5	938.3	824.7	709.9	652.0	678.0	688.7	696.9	694.6
70°	4987.4	2680.1	1081.5	820.0	728.9	639.0	590.4	603.5	596.4	605.8	609.4
72.5°	2780.6	1608.0	881.5	701.7	629.5	556.1	521.8	519.4	504.1	504.1	504.1
74°	1668.4	1179.7	775.0	628.3	569.1	501.7	472.1	461.5	447.3	448.5	447.3
75°	1341.8	1014.0	711.1	579.8	526.5	469.7	440.2	426.0	415.3	415.3	414.1
77.5°	847.2	770.3	572.7	461.5	421.2	386.9	366.8	347.9	347.9	346.7	345.5
80°	640.1	612.9	446.1	349.1	323.0	297.0	284.0	275.7	275.7	279.2	278.1
82.5°	439.0	461.5	313.6	243.7	230.7	211.8	209.4	210.6	207.1	202.3	201.2
85°	320.7	346.7	211.8	153.8	140.8	129.0	138.4	143.2	137.3	126.6	121.9
87.5°	123.1	227.2	113.6	63.9	59.2	50.9	59.2	61.5	66.3	52.1	53.2
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)