

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: P320043

Luminaire Tested: **GAN-SA9B-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320043
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-SA9B-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 48545 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

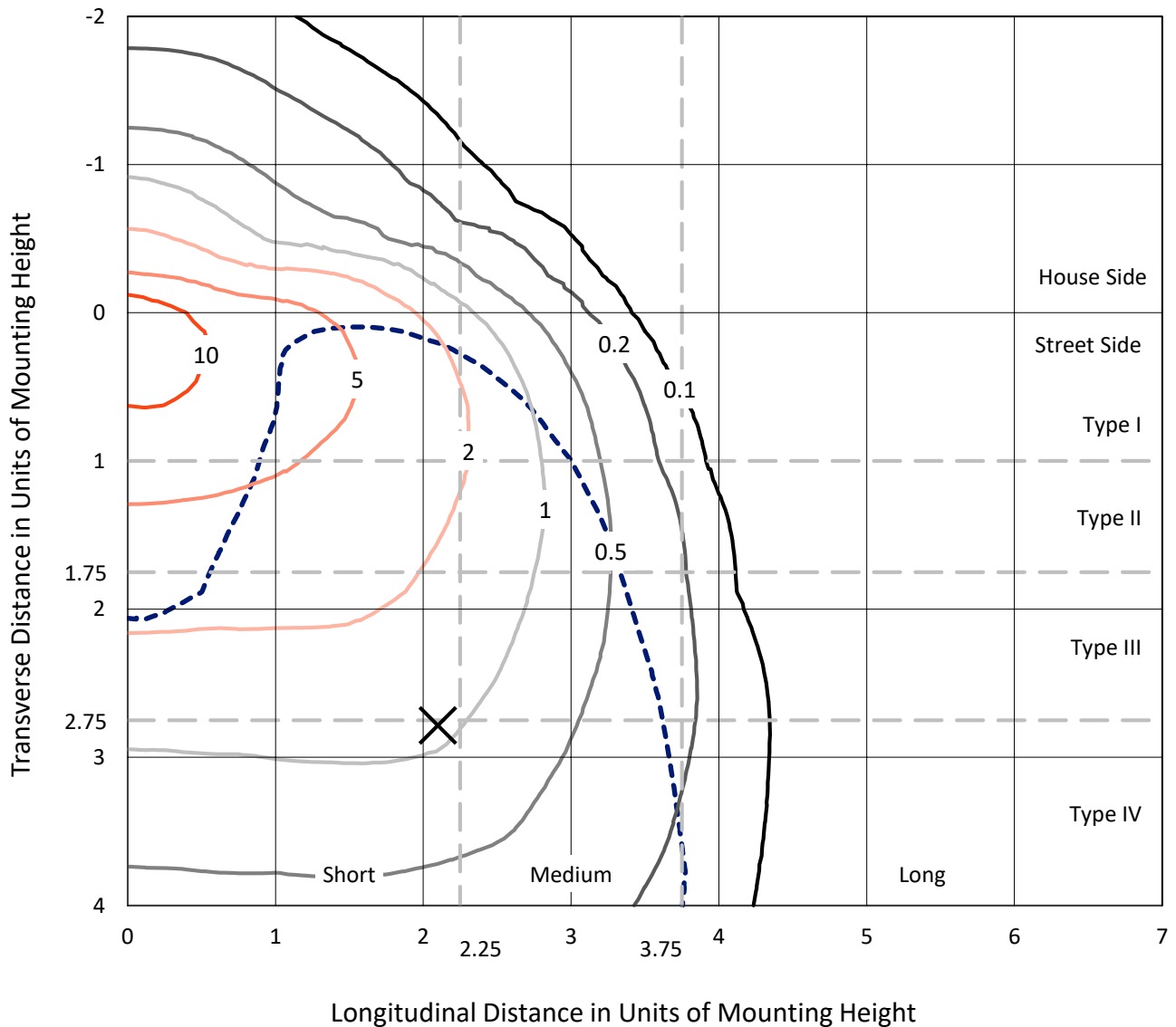
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

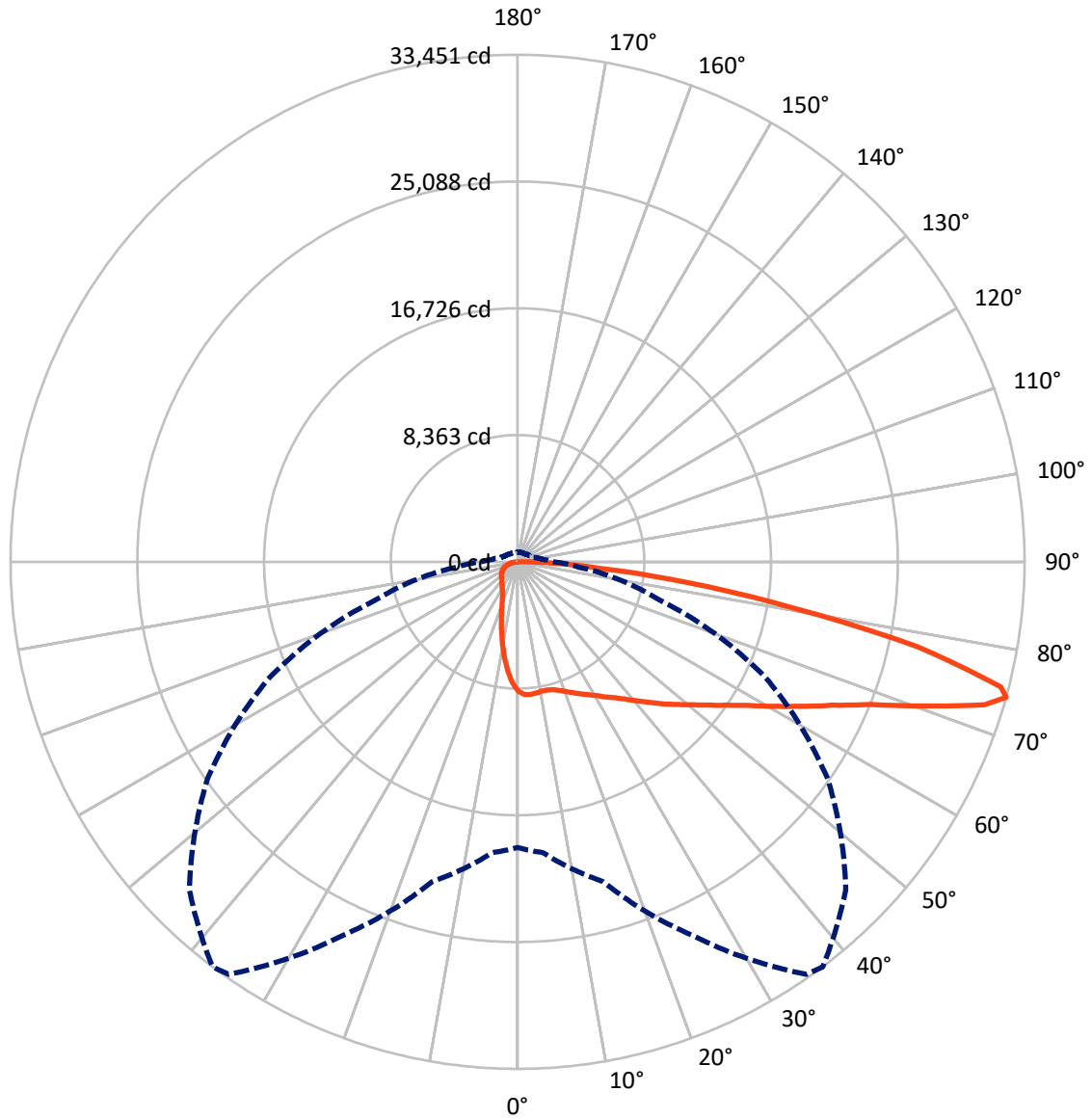
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	6679.5	0.0	6679.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	41865.6	0.0	41865.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	48545.0	0.0	48545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.2	1.6
10°-20°	1930.7	4.0
20°-30°	2974.9	6.1
30°-40°	4325.9	8.9
40°-50°	6367.0	13.1
50°-60°	8941.2	18.4
60°-70°	11316.9	23.3
70°-80°	9964.9	20.5
80°-90°	1970.3	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°	48545.0	100.0
0°-180°	48545.0	100.0

Coefficient of Utilization

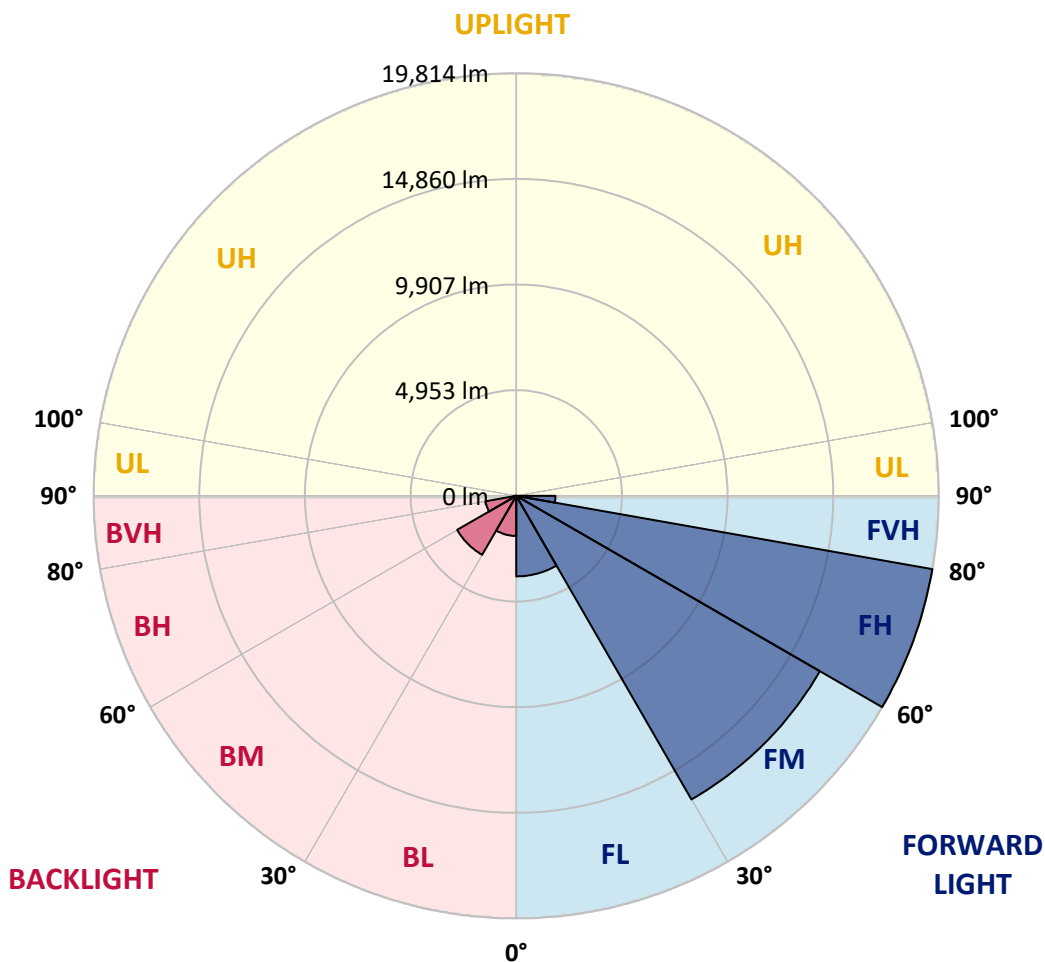


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3777.4	7.8			
FM (30°-60°)	16437.7	33.9			
FH (60°-80°)	19813.6	40.8			G5
FVH (80°-90°)	1836.9	3.8			G5
BL (0°-30°)	1881.4	3.9	B3/2500		
BM (30°-60°)	3196.4	6.6	B3/5000		
BH (60°-80°)	1468.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	133.4	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4
2.5°	8845.9	8847.6	8845.9	8832.2	8799.7	8772.3	8750.1	8717.6	8645.8	8591.1	8509.0
5°	8929.6	8919.4	8912.5	8886.9	8835.6	8804.8	8762.1	8700.5	8582.5	8473.1	8339.7
7.5°	8890.3	8878.3	8863.0	8832.2	8774.0	8748.4	8688.5	8608.2	8466.2	8322.6	8131.1
10°	8768.9	8765.5	8758.6	8751.8	8702.2	8681.7	8627.0	8541.5	8401.3	8226.8	8002.8
12.5°	8633.8	8642.4	8669.7	8705.6	8683.4	8673.1	8638.9	8580.8	8437.2	8249.1	7978.9
15°	8548.3	8572.3	8645.8	8739.8	8758.6	8755.2	8746.7	8709.1	8556.9	8348.2	8033.6
17.5°	8519.2	8558.6	8698.8	8854.4	8909.1	8921.1	8924.5	8859.5	8690.2	8469.7	8090.0
20°	8572.3	8621.8	8827.0	9040.8	9128.0	9134.8	9119.5	9006.6	8816.8	8574.0	8120.8
22.5°	8733.0	8777.5	9034.0	9275.1	9374.2	9384.5	9338.3	9167.3	8950.2	8697.1	8163.6
25°	9042.5	9097.2	9353.7	9594.8	9646.1	9647.8	9581.2	9369.1	9124.6	8869.8	8255.9
27.5°	9446.1	9500.8	9731.6	9967.6	9940.3	9924.9	9834.2	9622.2	9352.0	9107.5	8420.1
30°	9895.8	9955.6	10174.5	10342.1	10277.1	10246.3	10172.8	9899.2	9668.4	9432.4	8671.4
32.5°	10360.9	10415.6	10607.2	10721.7	10639.6	10626.0	10514.8	10265.2	10080.5	9928.3	9078.4
35°	10838.0	10877.3	11065.4	11130.4	11021.0	11017.6	10986.8	10757.6	10641.4	10713.2	9670.1
37.5°	11325.4	11335.6	11496.4	11499.8	11467.3	11481.0	11513.5	11369.8	11402.3	11626.3	10439.6
40°	11759.7	11787.1	11903.3	11939.2	11995.7	12043.6	12206.0	12112.0	12363.3	12760.1	11397.2
42.5°	12081.2	12134.2	12320.6	12412.9	12595.9	12671.1	12900.3	12987.5	13493.6	14088.7	12536.0
45°	12353.1	12435.2	12734.4	12924.2	13233.7	13365.4	13693.7	13986.1	14771.0	15530.3	13734.8
47.5°	12647.2	12751.5	13126.0	13488.5	13909.2	14057.9	14654.7	15092.5	16133.9	16980.3	14865.1
50°	13079.8	13160.2	13526.1	14095.6	14620.5	14812.1	15638.0	16265.6	17519.0	18362.0	15844.9
52.5°	13683.5	13652.7	13962.2	14760.8	15465.3	15701.3	16687.9	17513.9	18922.9	19612.0	16672.5
55°	14290.5	14239.2	14456.4	15456.7	16450.2	16698.2	17843.9	18767.3	20258.4	20737.2	17307.0
57.5°	14966.0	14868.5	15051.5	16241.6	17572.0	17867.8	19138.4	20099.4	21571.7	21646.9	17710.5
60°	15661.9	15530.3	15735.5	17214.6	18996.4	19345.3	20653.4	21399.0	22809.7	22375.4	17840.5
62.5°	16270.7	16178.3	16494.7	18300.5	20602.1	20985.2	22141.1	22780.7	24030.7	22678.1	17371.9
65°	16802.5	16817.9	17365.1	19521.4	22392.5	22801.2	23847.7	24483.8	24991.7	22498.5	16275.8
67.5°	17436.9	17524.1	18457.8	21128.8	24646.3	25094.3	26330.6	26340.9	25528.7	21445.2	14117.8
70°	18362.0	18541.6	19960.9	23358.7	27850.8	28466.4	29420.6	27431.9	24774.5	18589.5	11108.2
72.5°	19182.8	19518.0	21559.7	25910.0	31756.5	32223.3	31228.1	26802.6	21623.0	13931.4	6920.4
74°	18849.4	19264.9	21850.4	27166.8	33227.1	33451.1	30617.6	24966.1	18028.6	9647.8	4021.9
75°	18131.2	18582.6	21426.4	27154.9	33040.7	32915.9	29143.6	22867.9	14848.0	6580.1	2676.2
77.5°	14632.5	15109.6	18054.2	23273.2	27091.6	26973.6	22387.4	15340.4	6503.1	2158.0	1359.5
80°	8507.3	8871.5	11207.4	14779.6	18268.0	18481.7	14723.1	7590.7	2558.2	1212.4	921.7
82.5°	3779.1	4030.5	5413.9	7544.5	11024.4	11299.7	7710.4	3977.5	1580.0	737.0	554.0
85°	2479.5	2665.9	3286.6	3592.7	5249.7	5437.8	3774.0	3096.8	1043.1	405.3	407.0
87.5°	1783.5	1963.1	2441.9	2132.4	2409.4	2281.1	2053.7	2866.0	419.0	230.9	136.8
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°	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4	8553.4
2.5°	8473.1	8445.7	8384.2	8267.9	8202.9	8148.2	8057.5	8004.5	7980.6	7978.9	7989.1
5°	8262.7	8199.5	8040.4	7845.5	7689.9	7548.0	7371.8	7265.8	7190.6	7146.1	7158.1
7.5°	8018.2	7919.0	7669.4	7358.1	7108.5	6833.2	6561.3	6398.8	6272.3	6178.2	6195.3
10°	7850.6	7713.8	7349.6	6901.6	6486.0	6085.9	5711.4	5487.4	5309.6	5172.8	5183.0
12.5°	7794.2	7609.5	7105.1	6506.6	5923.5	5376.3	4887.2	4543.5	4360.5	4204.9	4216.9
15°	7802.7	7554.8	6899.9	6150.9	5417.3	4728.2	4134.8	3732.9	3485.0	3377.3	3379.0
17.5°	7809.6	7491.5	6684.4	5769.6	4916.3	4122.8	3478.1	3071.2	2836.9	2737.7	2739.4
20°	7787.4	7388.9	6417.6	5331.8	4393.0	3567.1	2942.9	2597.5	2419.7	2342.7	2342.7
22.5°	7758.3	7267.5	6116.7	4892.3	3876.6	3084.8	2559.9	2296.5	2193.9	2142.6	2140.9
25°	7772.0	7176.9	5808.9	4440.9	3401.2	2700.1	2305.1	2130.7	2062.3	2029.8	2028.1
27.5°	7845.5	7134.1	5525.0	3991.1	2985.7	2411.1	2134.1	2011.0	1966.5	1946.0	1946.0
30°	7978.9	7134.1	5229.2	3608.1	2640.2	2197.4	2002.4	1918.6	1887.8	1874.2	1874.2
32.5°	8211.4	7173.5	4943.6	3228.5	2364.9	2029.8	1893.0	1836.5	1812.6	1805.8	1805.8
35°	8611.6	7306.8	4664.9	2869.4	2142.6	1893.0	1788.7	1756.2	1739.1	1737.4	1742.5
37.5°	9174.2	7578.7	4403.3	2604.3	1985.3	1781.8	1701.5	1675.8	1665.5	1674.1	1680.9
40°	9882.1	7948.1	4165.6	2364.9	1865.6	1692.9	1621.1	1604.0	1598.9	1610.8	1621.1
42.5°	10737.1	8447.4	3970.6	2192.2	1773.3	1617.7	1552.7	1532.2	1527.0	1540.7	1554.4
45°	11662.2	8984.4	3833.8	2064.0	1701.5	1561.2	1492.8	1470.6	1460.3	1467.2	1482.6
47.5°	12503.6	9492.2	3779.1	1973.3	1633.1	1513.4	1439.8	1412.5	1395.4	1391.9	1403.9
50°	13213.2	9870.1	3804.8	1918.6	1578.3	1460.3	1388.5	1357.7	1332.1	1316.7	1325.3
52.5°	13729.6	10107.8	3828.7	1894.7	1535.6	1402.2	1332.1	1303.0	1268.8	1243.2	1243.2
55°	14104.1	10162.6	3775.7	1875.9	1503.1	1338.9	1268.8	1241.5	1207.3	1178.2	1174.8
57.5°	14251.2	10008.7	3579.0	1848.5	1480.9	1279.1	1202.1	1181.6	1152.5	1118.3	1116.6
60°	14052.8	9533.3	3199.4	1790.4	1451.8	1229.5	1135.4	1121.8	1108.1	1075.6	1073.9
62.5°	13256.0	8490.2	2708.6	1672.4	1393.7	1176.5	1073.9	1080.7	1082.4	1060.2	1056.8
65°	11811.0	7057.2	2229.8	1518.5	1306.4	1113.2	1010.6	1043.1	1061.9	1058.5	1053.4
67.5°	9711.1	5492.5	1889.6	1356.0	1191.9	1026.0	942.2	979.8	995.2	1007.2	1003.8
70°	7207.7	3873.2	1562.9	1185.0	1053.4	923.4	853.3	872.1	861.8	875.5	880.7
72.5°	4018.5	2323.9	1274.0	1014.0	909.7	803.7	754.1	750.7	728.5	728.5	728.5
74°	2411.1	1704.9	1120.1	908.0	822.5	725.0	682.3	666.9	646.4	648.1	646.4
75°	1939.1	1465.5	1027.7	837.9	761.0	678.9	636.1	615.6	600.2	600.2	598.5
77.5°	1224.4	1113.2	827.6	666.9	608.8	559.2	530.1	502.7	502.7	501.0	499.3
80°	925.1	885.8	644.7	504.5	466.8	429.2	410.4	398.4	398.4	403.6	401.9
82.5°	634.4	666.9	453.2	352.3	333.5	306.1	302.7	304.4	299.3	292.4	290.7
85°	463.4	501.0	306.1	222.3	203.5	186.4	200.1	206.9	198.4	183.0	176.1
87.5°	177.8	328.3	164.2	92.3	85.5	73.5	85.5	88.9	95.8	75.2	77.0
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)