

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: P383477

Luminaire Tested: **GAN-SA7D-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383477
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-SA7D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA 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: 48578.3 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

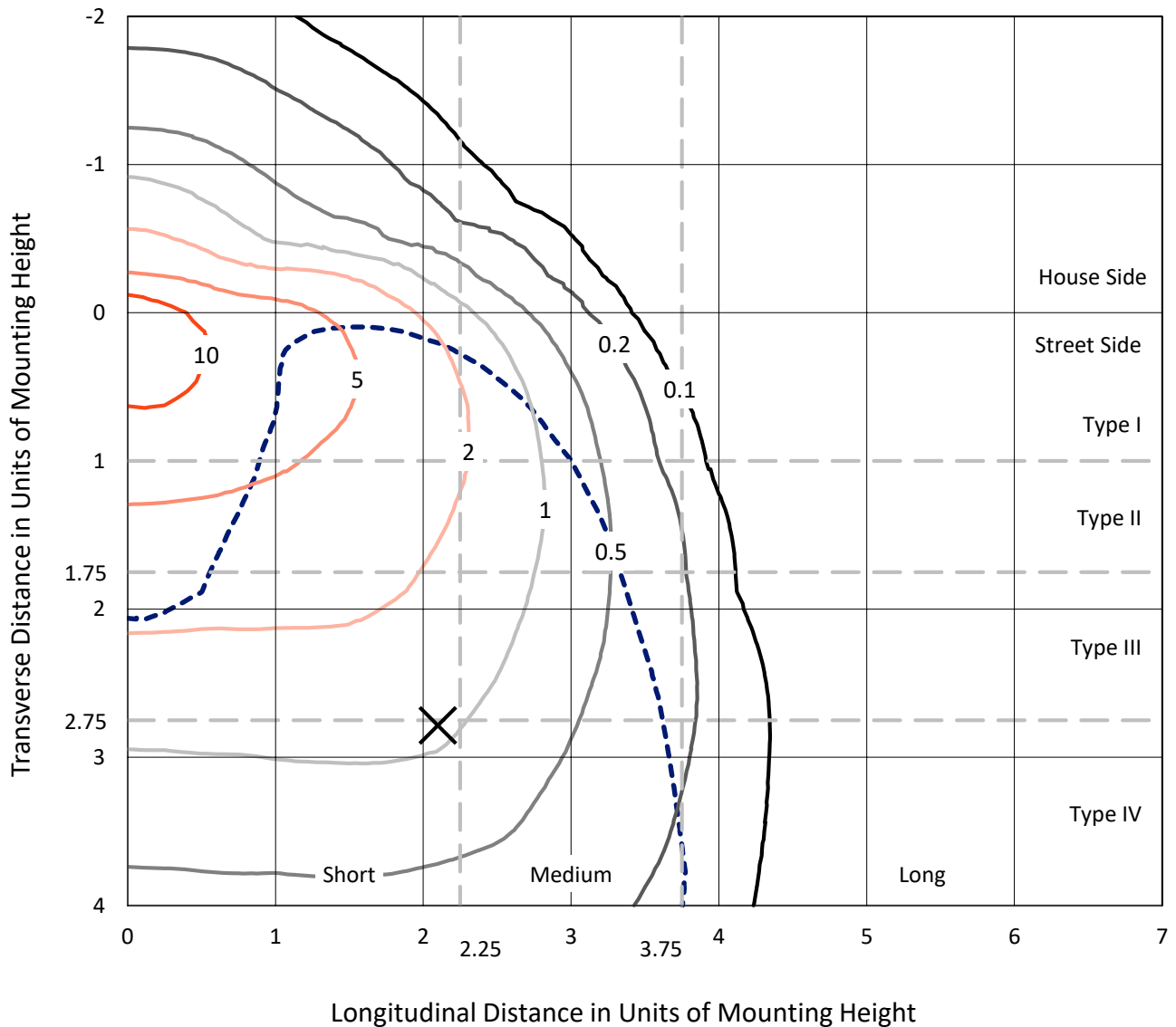
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

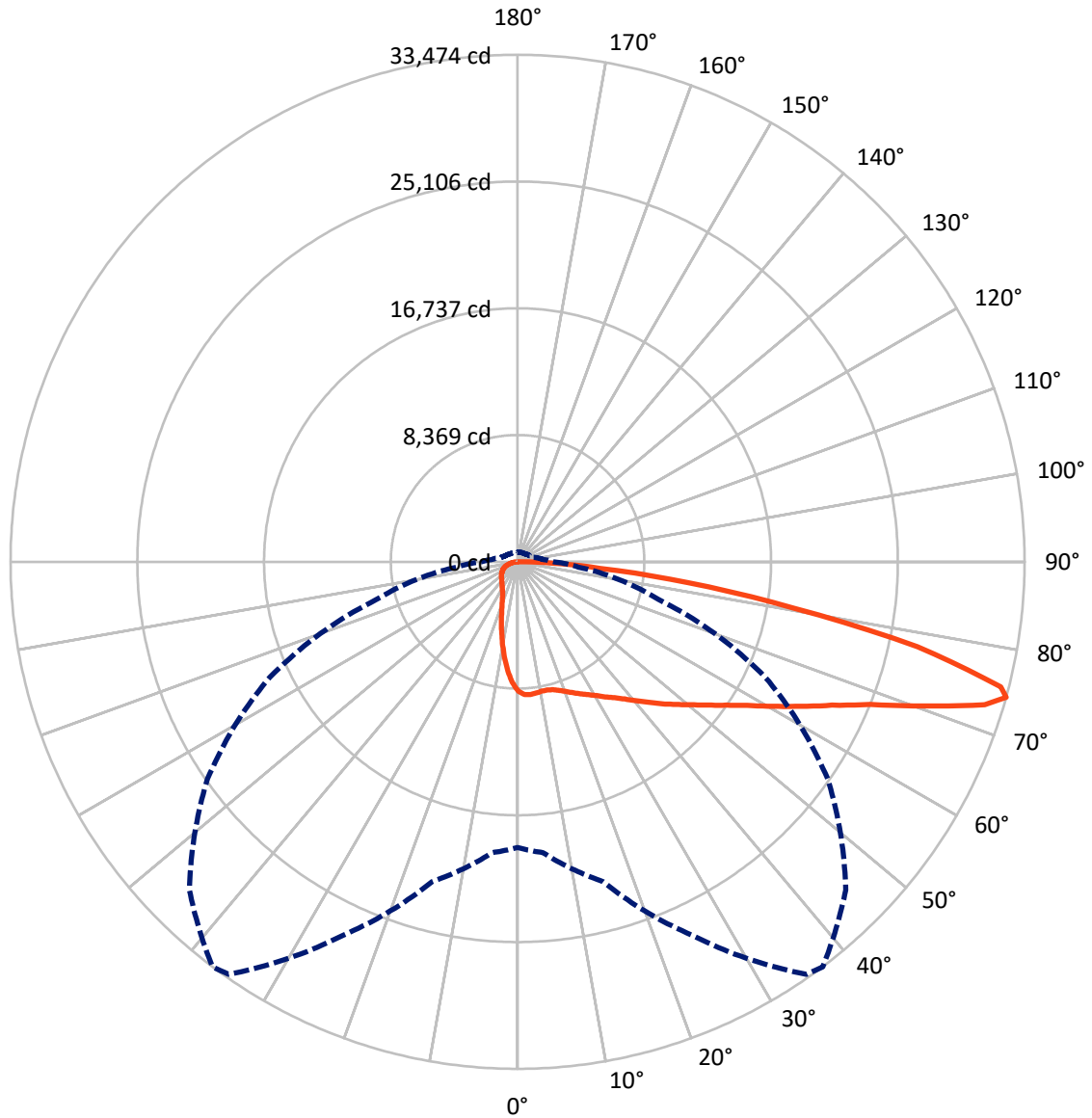
✕ Max cd
 - - - 1/2 Max cd



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	6684.0	0.0	6684.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	41894.3	0.0	41894.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	48578.3	0.0	48578.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	753.7	1.6
10°-20°	1932.0	4.0
20°-30°	2976.9	6.1
30°-40°	4328.9	8.9
40°-50°	6371.3	13.1
50°-60°	8947.4	18.4
60°-70°	11324.6	23.3
70°-80°	9971.8	20.5
80°-90°	1971.6	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°	48578.3	100.0
0°-180°	48578.3	100.0

Coefficient of Utilization

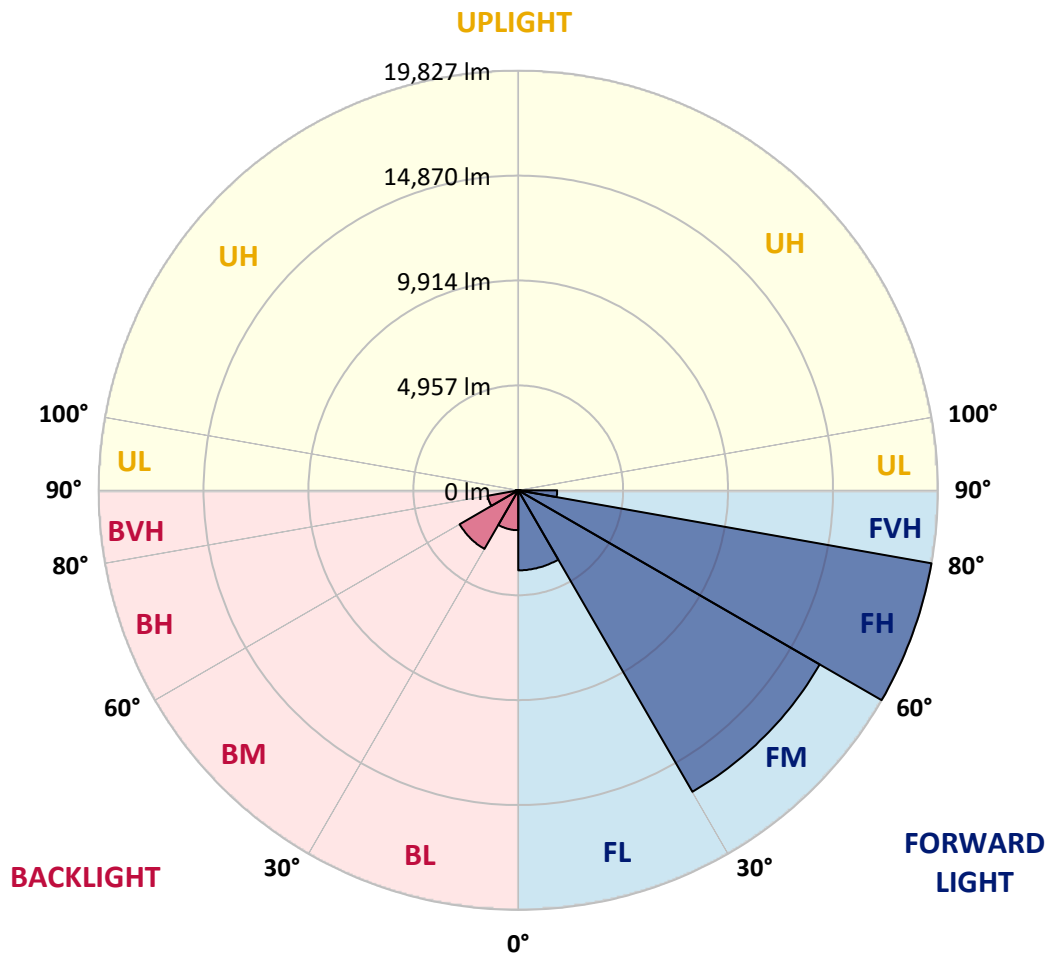


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3780.0	7.8			
FM (30°-60°)	16449.0	33.9			
FH (60°-80°)	19827.2	40.8			G5
FVH (80°-90°)	1838.1	3.8			G5
BL (0°-30°)	1882.7	3.9	B3/2500		
BM (30°-60°)	3198.6	6.6	B3/5000		
BH (60°-80°)	1469.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	133.5	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°	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3
2.5°	8851.9	8853.6	8851.9	8838.2	8805.7	8778.3	8756.1	8723.6	8651.7	8597.0	8514.8
5°	8935.8	8925.5	8918.6	8893.0	8841.7	8810.9	8768.1	8706.5	8588.4	8478.9	8345.5
7.5°	8896.4	8884.4	8869.1	8838.2	8780.0	8754.4	8694.5	8614.1	8472.1	8328.3	8136.7
10°	8774.9	8771.5	8764.7	8757.9	8708.2	8687.6	8632.9	8547.3	8407.0	8232.5	8008.3
12.5°	8639.7	8648.3	8675.7	8711.6	8689.4	8679.1	8644.9	8586.7	8443.0	8254.7	7984.4
15°	8554.2	8578.2	8651.7	8745.8	8764.7	8761.2	8752.6	8715.0	8562.7	8353.9	8039.2
17.5°	8525.1	8564.5	8704.8	8860.5	8915.3	8927.2	8930.7	8865.6	8696.2	8475.5	8095.6
20°	8578.2	8627.8	8833.1	9047.0	9134.3	9141.1	9125.7	9012.8	8822.9	8579.8	8126.4
22.5°	8739.0	8783.5	9040.2	9281.5	9380.7	9390.9	9344.7	9173.6	8956.3	8703.1	8169.2
25°	9048.7	9103.5	9360.2	9601.5	9652.8	9654.5	9587.8	9375.6	9130.8	8875.9	8261.6
27.5°	9452.5	9507.3	9738.3	9974.5	9947.1	9931.7	9841.0	9628.8	9358.4	9113.7	8425.8
30°	9902.6	9962.5	10181.5	10349.2	10284.2	10253.4	10179.8	9906.0	9675.0	9438.9	8677.4
32.5°	10368.0	10422.8	10614.4	10729.1	10646.9	10633.2	10522.0	10272.2	10087.4	9935.1	9084.6
35°	10845.4	10884.9	11073.0	11138.0	11028.6	11025.1	10994.3	10765.1	10648.7	10720.5	9676.7
37.5°	11333.1	11343.4	11504.2	11507.7	11475.2	11488.9	11521.4	11377.6	11410.2	11634.3	10446.7
40°	11767.8	11795.2	11911.5	11947.5	12003.9	12051.8	12214.4	12120.3	12371.8	12768.8	11405.0
42.5°	12089.4	12142.5	12329.0	12421.4	12604.6	12679.9	12909.1	12996.4	13502.9	14098.4	12544.7
45°	12361.5	12443.7	12743.1	12933.0	13242.8	13374.6	13703.2	13995.8	14781.1	15540.9	13744.1
47.5°	12655.9	12760.2	13135.0	13497.8	13918.7	14067.6	14664.8	15102.9	16144.9	16992.0	14875.2
50°	13088.8	13169.2	13535.4	14105.2	14630.6	14822.2	15648.7	16276.7	17531.0	18374.7	15855.8
52.5°	13692.8	13662.1	13971.8	14770.9	15475.9	15712.0	16699.4	17525.9	18935.9	19625.5	16684.0
55°	14300.3	14249.0	14466.3	15467.3	16461.6	16709.6	17856.2	18780.2	20272.3	20751.4	17318.9
57.5°	14976.2	14878.7	15061.8	16252.8	17584.1	17880.1	19151.5	20113.2	21586.5	21661.8	17722.7
60°	15672.7	15540.9	15746.2	17226.5	19009.4	19358.6	20667.6	21413.7	22825.4	22390.8	17852.7
62.5°	16281.9	16189.5	16506.0	18313.0	20616.3	20999.6	22156.3	22796.4	24047.2	22693.6	17383.9
65°	16814.1	16829.4	17377.0	19534.8	22407.9	22816.9	23864.1	24500.6	25008.9	22514.0	16287.0
67.5°	17448.9	17536.2	18470.4	21143.3	24663.2	25111.5	26348.7	26359.0	25546.2	21459.9	14127.5
70°	18374.7	18554.3	19974.6	23374.7	27869.9	28486.0	29440.8	27450.8	24791.6	18602.3	11115.8
72.5°	19196.0	19531.4	21574.5	25927.8	31778.3	32245.4	31249.5	26821.0	21637.9	13941.0	6925.1
74°	18862.3	19278.1	21865.5	27185.5	33249.9	33474.0	30638.7	24983.2	18041.0	9654.5	4024.7
75°	18143.7	18595.4	21441.1	27173.5	33063.4	32938.5	29163.6	22883.6	14858.2	6584.6	2678.0
77.5°	14642.5	15119.9	18066.6	23289.2	27110.2	26992.2	22402.8	15351.0	6507.6	2159.5	1360.4
80°	8513.1	8877.6	11215.1	14789.7	18280.5	18494.4	14733.3	7595.9	2559.9	1213.2	922.3
82.5°	3781.7	4033.2	5417.6	7549.7	11031.9	11307.5	7715.7	3980.2	1581.1	737.5	554.5
85°	2481.2	2667.8	3288.9	3595.2	5253.3	5441.5	3776.6	3099.0	1043.8	405.6	407.3
87.5°	1784.8	1964.4	2443.5	2133.8	2411.0	2282.8	2055.1	2868.0	419.2	231.0	136.9
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°	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3	8559.3
2.5°	8478.9	8451.5	8389.9	8273.5	8208.5	8153.7	8063.1	8010.0	7986.1	7984.4	7994.6
5°	8268.4	8205.1	8046.0	7850.9	7695.1	7553.2	7376.9	7270.8	7195.5	7151.0	7162.9
7.5°	8023.7	7924.5	7674.6	7363.2	7113.4	6837.8	6565.8	6403.3	6276.6	6182.5	6199.6
10°	7856.0	7719.1	7354.7	6906.3	6490.5	6090.1	5715.3	5491.2	5313.2	5176.3	5186.6
12.5°	7799.6	7614.7	7109.9	6511.1	5927.5	5380.0	4890.5	4546.6	4363.5	4207.8	4219.7
15°	7808.1	7560.0	6904.6	6155.1	5421.0	4731.4	4137.7	3735.5	3487.3	3379.6	3381.3
17.5°	7814.9	7496.6	6689.0	5773.5	4919.6	4125.6	3480.5	3073.3	2838.9	2739.6	2741.3
20°	7792.7	7394.0	6422.1	5335.4	4396.0	3569.5	2944.9	2599.3	2421.3	2344.3	2344.3
22.5°	7763.6	7272.5	6120.9	4895.7	3879.2	3087.0	2561.7	2298.1	2195.5	2144.1	2142.4
25°	7777.3	7181.9	5812.9	4443.9	3403.5	2702.0	2306.7	2132.1	2063.7	2031.1	2029.5
27.5°	7850.9	7139.0	5528.8	3993.9	2987.8	2412.8	2135.6	2012.3	1967.9	1947.3	1947.3
30°	7984.4	7139.0	5232.8	3610.6	2642.1	2198.8	2003.8	1919.9	1889.2	1875.5	1875.5
32.5°	8217.1	7178.4	4947.0	3230.7	2366.6	2031.1	1894.3	1837.9	1813.8	1807.0	1807.0
35°	8617.5	7311.9	4668.1	2871.4	2144.1	1894.3	1789.9	1757.4	1740.2	1738.5	1743.7
37.5°	9180.5	7583.9	4406.3	2606.1	1986.7	1783.1	1702.6	1677.0	1666.7	1675.2	1682.1
40°	9888.9	7953.6	4168.4	2366.6	1866.9	1694.1	1622.2	1605.1	1599.9	1611.9	1622.2
42.5°	10744.5	8453.2	3973.3	2193.7	1774.5	1618.8	1553.7	1533.2	1528.1	1541.8	1555.5
45°	11670.2	8990.6	3836.5	2065.4	1702.6	1562.3	1493.8	1471.7	1461.3	1468.2	1483.6
47.5°	12512.2	9498.7	3781.7	1974.7	1634.2	1514.4	1440.8	1413.4	1396.3	1392.9	1404.9
50°	13222.3	9876.9	3807.3	1919.9	1579.4	1461.3	1389.5	1358.7	1333.0	1317.6	1326.2
52.5°	13739.0	10114.7	3831.4	1896.0	1536.7	1403.2	1333.0	1303.9	1269.7	1244.0	1244.0
55°	14113.8	10169.5	3778.3	1877.2	1504.2	1339.8	1269.7	1242.3	1208.1	1179.0	1175.6
57.5°	14261.0	10015.5	3581.5	1849.8	1481.9	1279.9	1203.0	1182.4	1153.3	1119.1	1117.4
60°	14062.5	9539.8	3201.6	1791.6	1452.7	1230.3	1136.2	1122.5	1108.8	1076.3	1074.6
62.5°	13265.1	8496.0	2710.5	1673.5	1394.6	1177.3	1074.6	1081.4	1083.2	1060.9	1057.5
65°	11819.1	7062.1	2231.3	1519.5	1307.3	1113.9	1011.3	1043.8	1062.6	1059.3	1054.0
67.5°	9717.8	5496.3	1890.9	1357.0	1192.7	1026.8	942.8	980.5	995.9	1007.8	1004.5
70°	7212.6	3875.8	1564.0	1185.9	1054.0	924.0	853.9	872.7	862.4	876.1	881.2
72.5°	4021.3	2325.5	1274.8	1014.7	910.3	804.3	754.6	751.2	728.9	728.9	728.9
74°	2412.8	1706.0	1120.8	908.6	823.1	725.6	682.7	667.4	646.9	648.5	646.9
75°	1940.5	1466.4	1028.4	838.5	761.4	679.4	636.5	616.0	600.7	600.7	598.9
77.5°	1225.2	1113.9	828.2	667.4	609.1	559.6	530.4	503.1	503.1	501.4	499.7
80°	925.8	886.4	645.1	504.8	467.2	429.5	410.7	398.7	398.7	403.8	402.1
82.5°	634.8	667.4	453.5	352.5	333.7	306.3	302.8	304.6	299.5	292.6	290.9
85°	463.7	501.4	306.3	222.5	203.6	186.5	200.2	207.1	198.5	183.1	176.2
87.5°	177.9	328.6	164.2	92.4	85.5	73.6	85.5	89.0	95.9	75.3	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)