

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: P320173

Luminaire Tested: **GAN-SA9C-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320173
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-SA9C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 47748 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

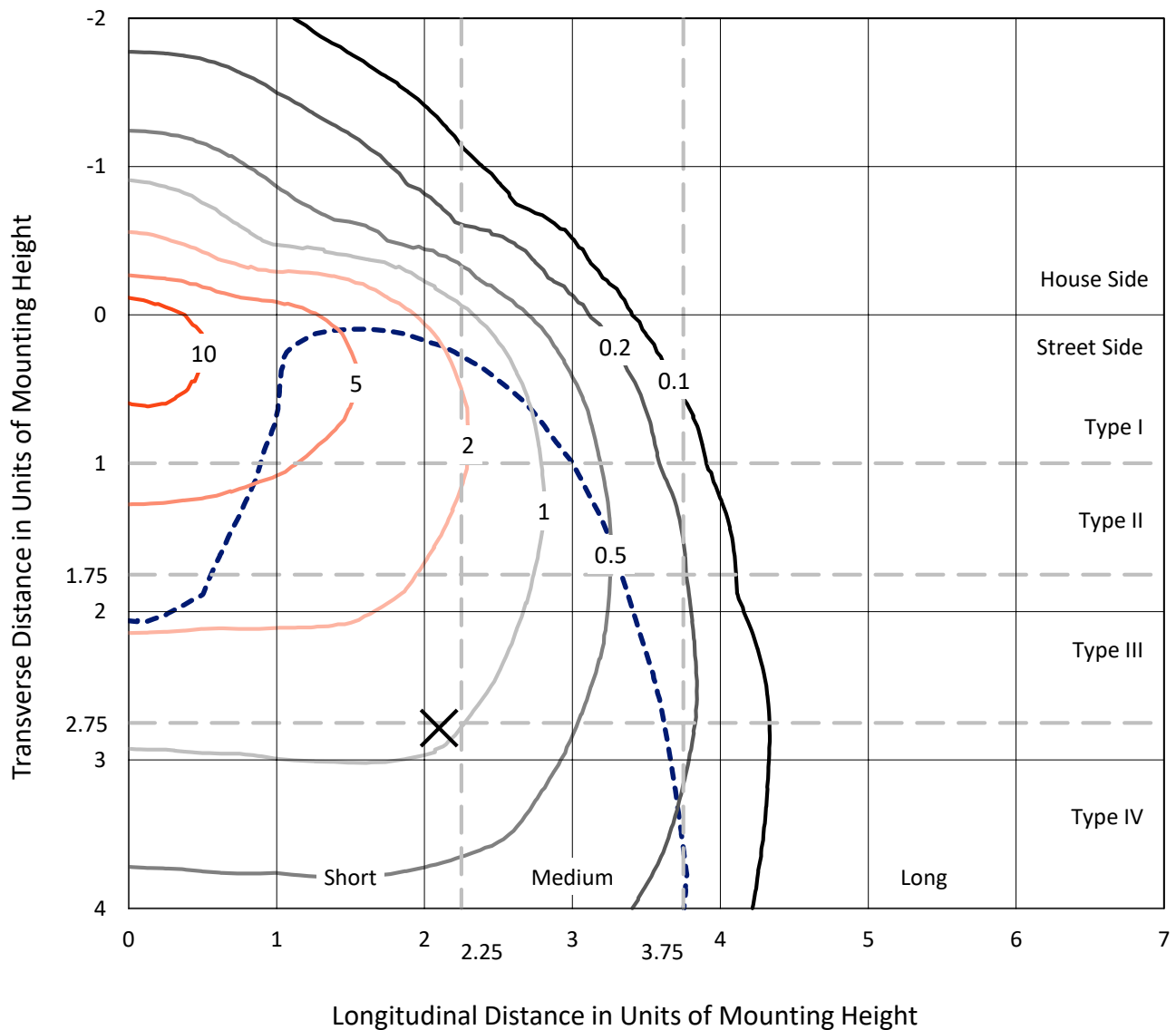
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

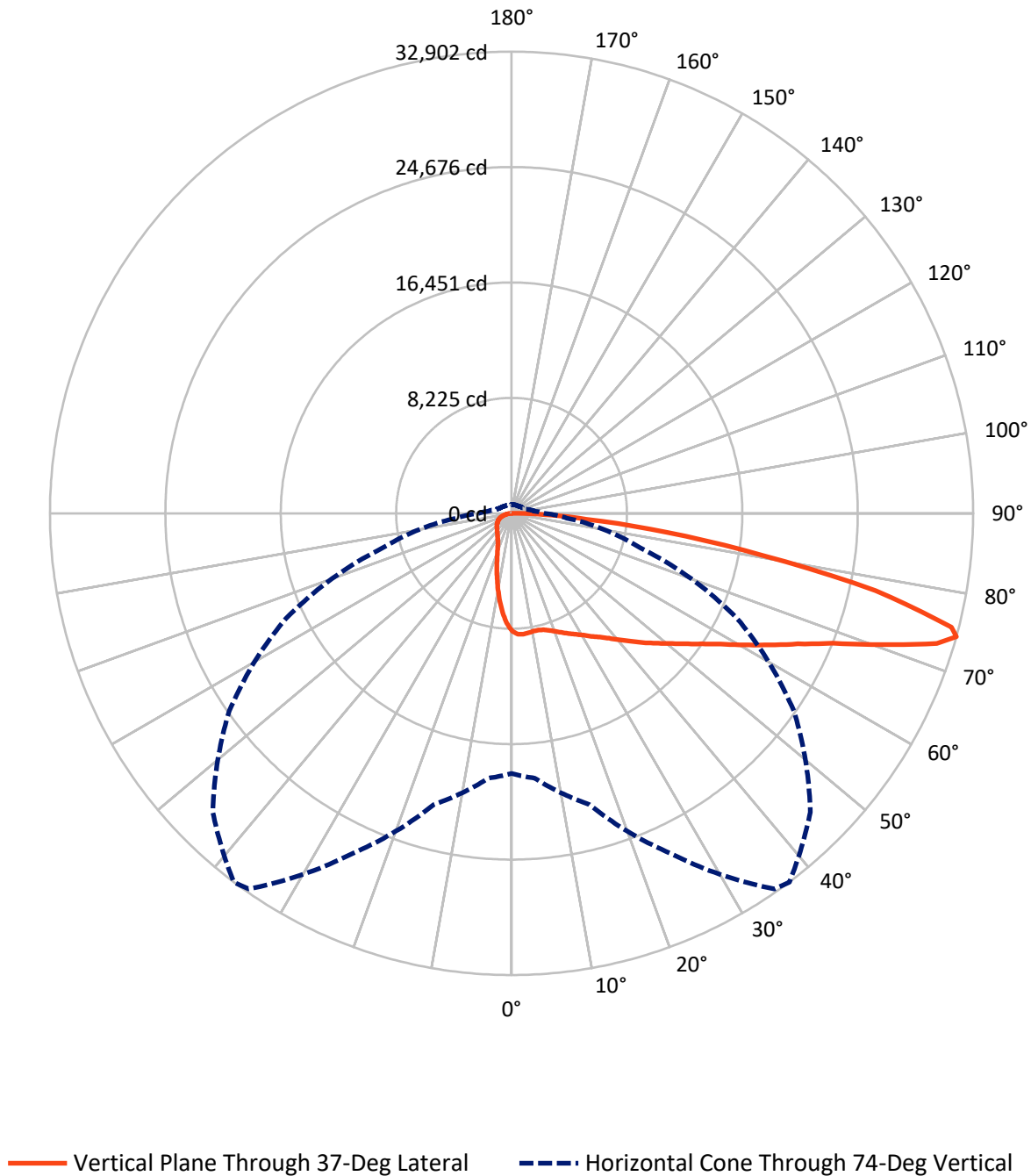
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6569.8	0.0	6569.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	41178.2	0.0	41178.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	47748.0	0.0	47748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.9	1.6
10°-20°	1899.0	4.0
20°-30°	2926.0	6.1
30°-40°	4254.9	8.9
40°-50°	6262.4	13.1
50°-60°	8794.5	18.4
60°-70°	11131.1	23.3
70°-80°	9801.3	20.5
80°-90°	1937.9	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°	47748.0	100.0
0°-180°	47748.0	100.0

Coefficient of Utilization



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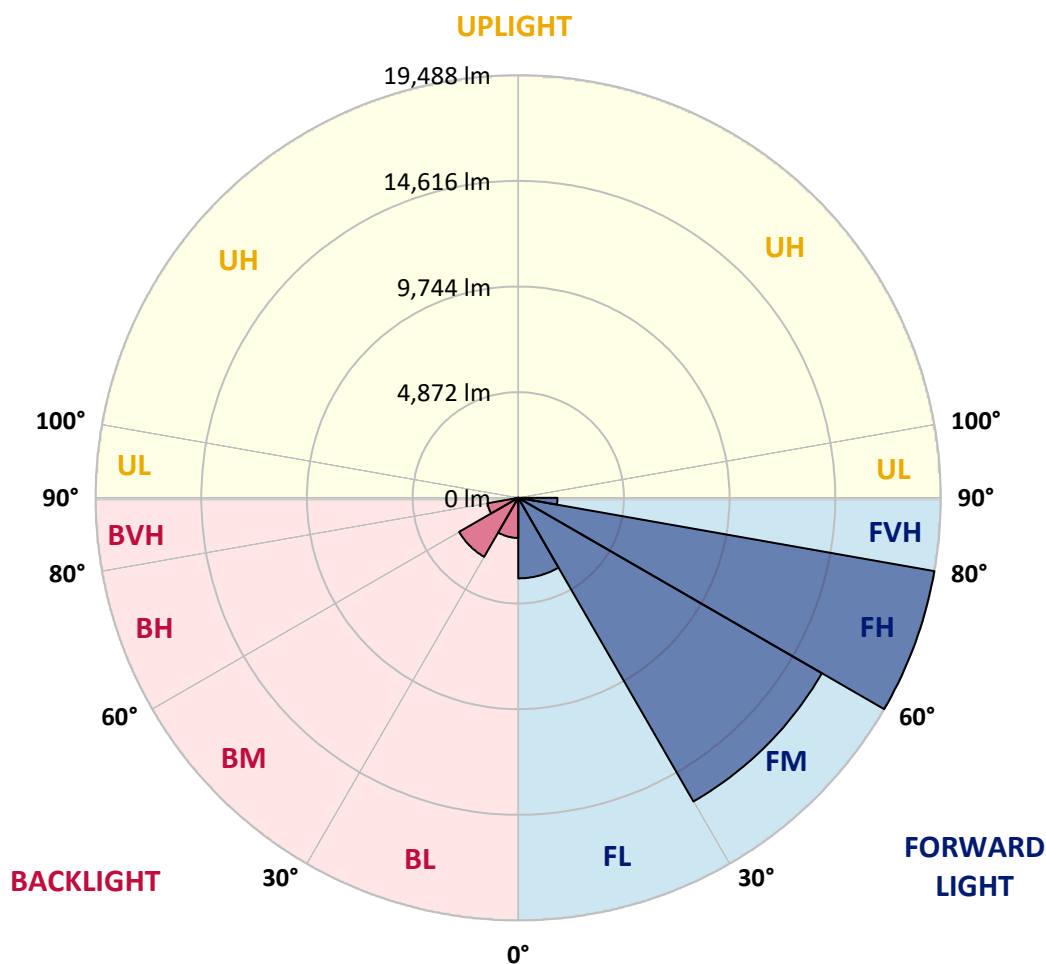
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3715.4	7.8			
FM	(30°-60°)	16167.9	33.9			
FH	(60°-80°)	19488.3	40.8			G5
FVH	(80°-90°)	1806.7	3.8			G5
BL	(0°-30°)	1850.5	3.9	B3/2500		
BM	(30°-60°)	3143.9	6.6	B3/5000		
BH	(60°-80°)	1444.1	3.0	B3/2500		G3/2500
BVH	(80°-90°)	131.2	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°	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0
2.5°	8700.6	8702.3	8700.6	8687.2	8655.2	8628.3	8606.4	8574.5	8503.8	8450.0	8369.3
5°	8783.0	8772.9	8766.2	8741.0	8690.5	8660.3	8618.2	8557.7	8441.6	8334.0	8202.8
7.5°	8744.4	8732.6	8717.4	8687.2	8630.0	8604.8	8545.9	8466.8	8327.2	8186.0	7997.6
10°	8624.9	8621.6	8614.8	8608.1	8559.3	8539.2	8485.3	8401.2	8263.3	8091.8	7871.4
12.5°	8492.1	8500.5	8527.4	8562.7	8540.8	8530.7	8497.1	8439.9	8298.6	8113.6	7847.9
15°	8408.0	8431.5	8503.8	8596.3	8614.8	8611.5	8603.1	8566.1	8416.4	8211.2	7901.7
17.5°	8379.4	8418.1	8556.0	8709.0	8762.9	8774.6	8778.0	8714.1	8547.6	8330.6	7957.2
20°	8431.5	8480.3	8682.1	8892.4	8978.1	8984.9	8969.7	8858.7	8672.0	8433.2	7987.5
22.5°	8589.6	8633.3	8885.6	9122.8	9220.3	9230.4	9185.0	9016.8	8803.2	8554.3	8029.5
25°	8894.0	8947.9	9200.2	9437.3	9487.8	9489.4	9423.9	9215.3	8974.8	8724.2	8120.4
27.5°	9291.0	9344.8	9571.9	9804.0	9777.1	9761.9	9672.8	9464.2	9198.5	8958.0	8281.8
30°	9733.3	9792.2	10007.5	10172.3	10108.4	10078.1	10005.8	9736.7	9509.6	9277.5	8529.1
32.5°	10190.8	10244.6	10433.0	10545.7	10465.0	10451.5	10342.2	10096.6	9915.0	9765.3	8929.4
35°	10660.1	10698.8	10883.8	10947.7	10840.0	10836.7	10806.4	10581.0	10466.6	10537.3	9511.3
37.5°	11139.4	11149.5	11307.6	11311.0	11279.0	11292.5	11324.4	11183.2	11215.1	11435.4	10268.2
40°	11566.6	11593.5	11707.9	11743.2	11798.7	11845.8	12005.6	11913.1	12160.4	12550.6	11210.1
42.5°	11882.8	11935.0	12118.3	12209.1	12389.1	12463.1	12688.5	12774.3	13272.1	13857.4	12330.2
45°	12150.3	12231.0	12525.3	12712.0	13016.5	13146.0	13468.9	13756.5	14528.5	15275.3	13509.3
47.5°	12439.6	12542.2	12910.5	13267.1	13680.8	13827.1	14414.1	14844.7	15869.0	16701.6	14621.0
50°	12865.1	12944.1	13304.1	13864.1	14380.5	14568.9	15381.2	15998.5	17231.4	18060.6	15584.8
52.5°	13458.8	13428.5	13733.0	14518.4	15211.4	15443.5	16414.0	17226.3	18612.2	19290.1	16398.8
55°	14055.9	14005.4	14219.0	15203.0	16180.2	16424.0	17550.9	18459.2	19925.8	20396.8	17022.8
57.5°	14720.2	14624.4	14804.3	15975.0	17283.5	17574.5	18824.2	19769.4	21217.5	21291.5	17419.7
60°	15404.8	15275.3	15477.1	16932.0	18684.6	19027.7	20314.3	21047.7	22435.3	22008.1	17547.6
62.5°	16003.6	15912.7	16223.9	18000.0	20263.9	20640.6	21777.6	22406.7	23636.2	22305.8	17086.7
65°	16526.6	16541.8	17080.0	19200.9	22024.9	22426.9	23456.2	24081.9	24581.4	22129.1	16008.6
67.5°	17150.6	17236.4	18154.7	20781.9	24241.7	24682.3	25898.4	25908.4	25109.5	21093.1	13886.0
70°	18060.6	18237.2	19633.2	22975.2	27393.6	27999.1	28937.6	26981.5	24367.8	18284.3	10925.8
72.5°	18867.9	19197.5	21205.8	25484.6	31235.1	31694.3	30715.4	26362.6	21268.0	13702.7	6806.8
74°	18539.9	18948.6	21491.7	26720.8	32681.6	32901.9	30115.0	24556.2	17732.6	9489.4	3955.9
75°	17833.5	18277.5	21074.6	26709.0	32498.2	32375.5	28665.1	22492.4	14604.2	6472.1	2632.2
77.5°	14392.3	14861.5	17757.8	22891.1	26646.8	26530.8	22019.8	15088.6	6396.4	2122.6	1337.1
80°	8367.6	8725.9	11023.4	14536.9	17968.1	18178.3	14481.4	7466.1	2516.2	1192.5	906.6
82.5°	3717.1	3964.3	5325.0	7420.7	10843.4	11114.2	7583.8	3912.2	1554.1	724.9	544.9
85°	2438.8	2622.1	3232.7	3533.7	5163.5	5348.5	3712.0	3046.0	1026.0	398.6	400.3
87.5°	1754.3	1930.9	2401.8	2097.4	2369.8	2243.7	2020.0	2818.9	412.1	227.1	134.6
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°	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0	8413.0
2.5°	8334.0	8307.1	8246.5	8132.1	8068.2	8014.4	7925.3	7873.1	7849.6	7847.9	7858.0
5°	8127.1	8064.9	7908.4	7716.7	7563.6	7424.0	7250.8	7146.5	7072.5	7028.8	7040.6
7.5°	7886.6	7789.0	7543.5	7237.3	6991.8	6721.0	6453.6	6293.8	6169.3	6076.8	6093.6
10°	7721.7	7587.2	7228.9	6788.3	6379.6	5986.0	5617.6	5397.3	5222.4	5087.8	5097.9
12.5°	7666.2	7484.6	6988.4	6399.7	5826.2	5288.0	4807.0	4468.9	4288.9	4135.9	4147.6
15°	7674.6	7430.8	6786.6	6049.9	5328.4	4650.5	4066.9	3671.7	3427.8	3321.8	3323.5
17.5°	7681.4	7368.5	6574.7	5674.8	4835.5	4055.1	3421.0	3020.7	2790.3	2692.8	2694.5
20°	7659.5	7267.6	6312.3	5244.3	4320.9	3508.5	2894.6	2554.9	2379.9	2304.2	2304.2
22.5°	7630.9	7148.2	6016.3	4812.0	3812.9	3034.2	2517.8	2258.8	2157.9	2107.5	2105.8
25°	7644.4	7059.1	5713.5	4368.0	3345.4	2655.8	2267.2	2095.7	2028.4	1996.5	1994.8
27.5°	7716.7	7017.0	5434.3	3925.6	2936.6	2371.5	2099.0	1977.9	1934.2	1914.0	1914.0
30°	7847.9	7017.0	5143.3	3548.9	2596.9	2161.3	1969.5	1887.1	1856.9	1843.4	1843.4
32.5°	8076.6	7055.7	4862.5	3175.5	2326.1	1996.5	1861.9	1806.4	1782.8	1776.1	1776.1
35°	8470.2	7186.9	4588.3	2822.3	2107.5	1861.9	1759.3	1727.3	1710.5	1708.8	1713.9
37.5°	9023.6	7454.3	4331.0	2561.6	1952.7	1752.6	1673.5	1648.3	1638.2	1646.6	1653.3
40°	9719.9	7817.6	4097.2	2326.1	1835.0	1665.1	1594.5	1577.7	1572.6	1584.4	1594.5
42.5°	10560.8	8308.7	3905.4	2156.2	1744.2	1591.1	1527.2	1507.0	1502.0	1515.4	1528.9
45°	11470.8	8836.9	3770.9	2030.1	1673.5	1535.6	1468.3	1446.5	1436.4	1443.1	1458.2
47.5°	12298.3	9336.4	3717.1	1940.9	1606.2	1488.5	1416.2	1389.3	1372.5	1369.1	1380.9
50°	12996.3	9708.1	3742.3	1887.1	1552.4	1436.4	1365.7	1335.5	1310.2	1295.1	1303.5
52.5°	13504.2	9941.9	3765.8	1863.6	1510.4	1379.2	1310.2	1281.6	1248.0	1222.8	1222.8
55°	13872.6	9995.7	3713.7	1845.1	1478.4	1317.0	1248.0	1221.1	1187.4	1158.8	1155.5
57.5°	14017.2	9844.3	3520.3	1818.2	1456.6	1258.1	1182.4	1162.2	1133.6	1100.0	1098.3
60°	13822.1	9376.8	3146.9	1761.0	1428.0	1209.3	1116.8	1103.3	1089.9	1057.9	1056.3
62.5°	13038.3	8350.8	2664.2	1644.9	1370.8	1157.2	1056.3	1063.0	1064.7	1042.8	1039.4
65°	11617.1	6941.3	2193.2	1493.6	1285.0	1094.9	994.0	1026.0	1044.5	1041.1	1036.1
67.5°	9551.7	5402.4	1858.5	1333.8	1172.3	1009.2	926.7	963.7	978.9	990.7	987.3
70°	7089.3	3809.6	1537.3	1165.6	1036.1	908.2	839.3	857.8	847.7	861.1	866.2
72.5°	3952.5	2285.7	1253.0	997.4	894.8	790.5	741.7	738.4	716.5	716.5	716.5
74°	2371.5	1676.9	1101.7	893.1	809.0	713.1	671.1	656.0	635.8	637.5	635.8
75°	1907.3	1441.4	1010.8	824.1	748.5	667.7	625.7	605.5	590.4	590.4	588.7
77.5°	1204.3	1094.9	814.1	656.0	598.8	550.0	521.4	494.5	494.5	492.8	491.1
80°	909.9	871.2	634.1	496.2	459.2	422.2	403.7	391.9	391.9	396.9	395.3
82.5°	624.0	656.0	445.7	346.5	328.0	301.1	297.7	299.4	294.3	287.6	285.9
85°	455.8	492.8	301.1	218.7	200.1	183.3	196.8	203.5	195.1	180.0	173.2
87.5°	174.9	322.9	161.5	90.8	84.1	72.3	84.1	87.5	94.2	74.0	75.7
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)