

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: P321133

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51550 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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



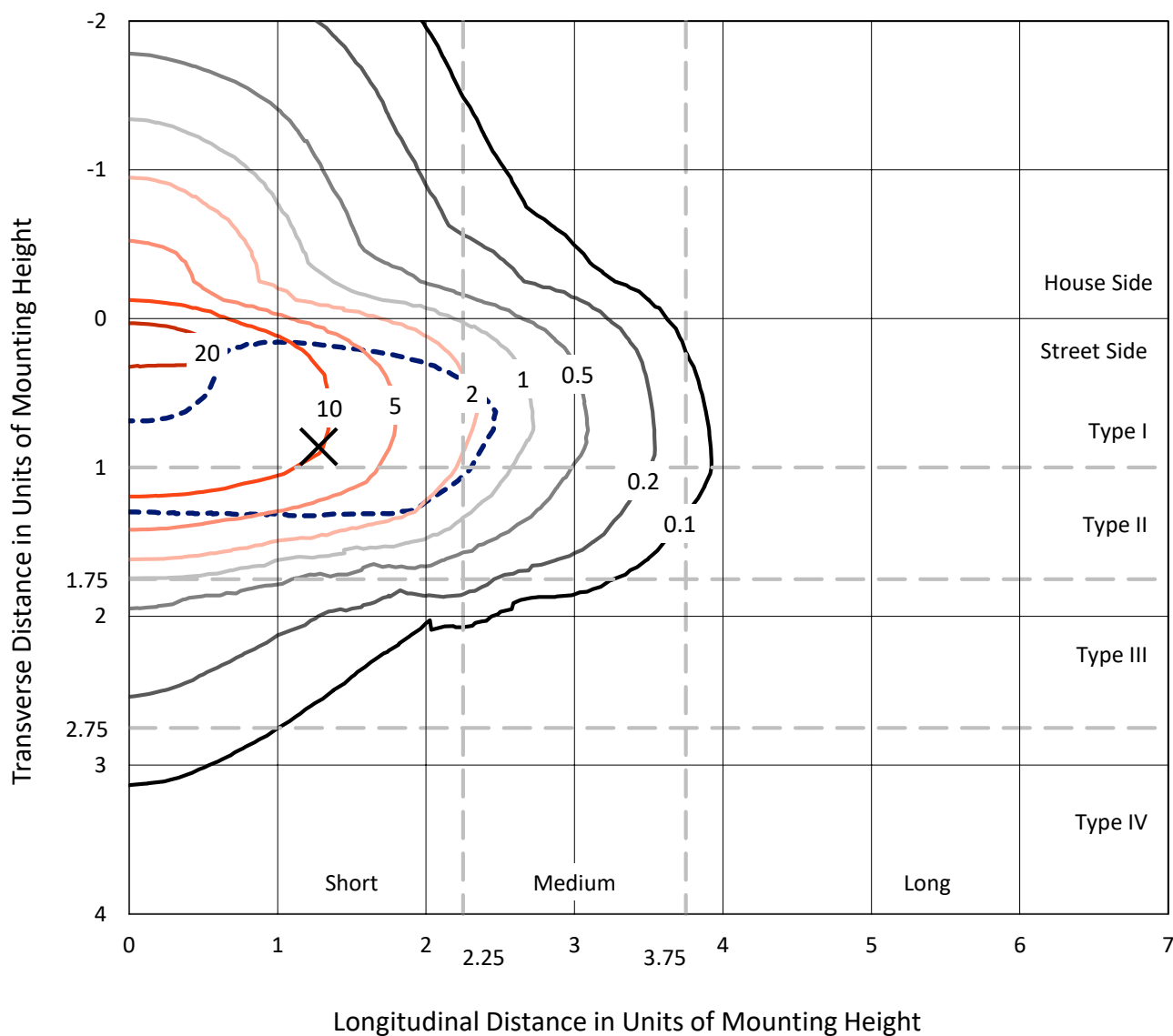
REPORT NUMBER: P321133

CATALOG NUMBER: GAN-SA9C-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

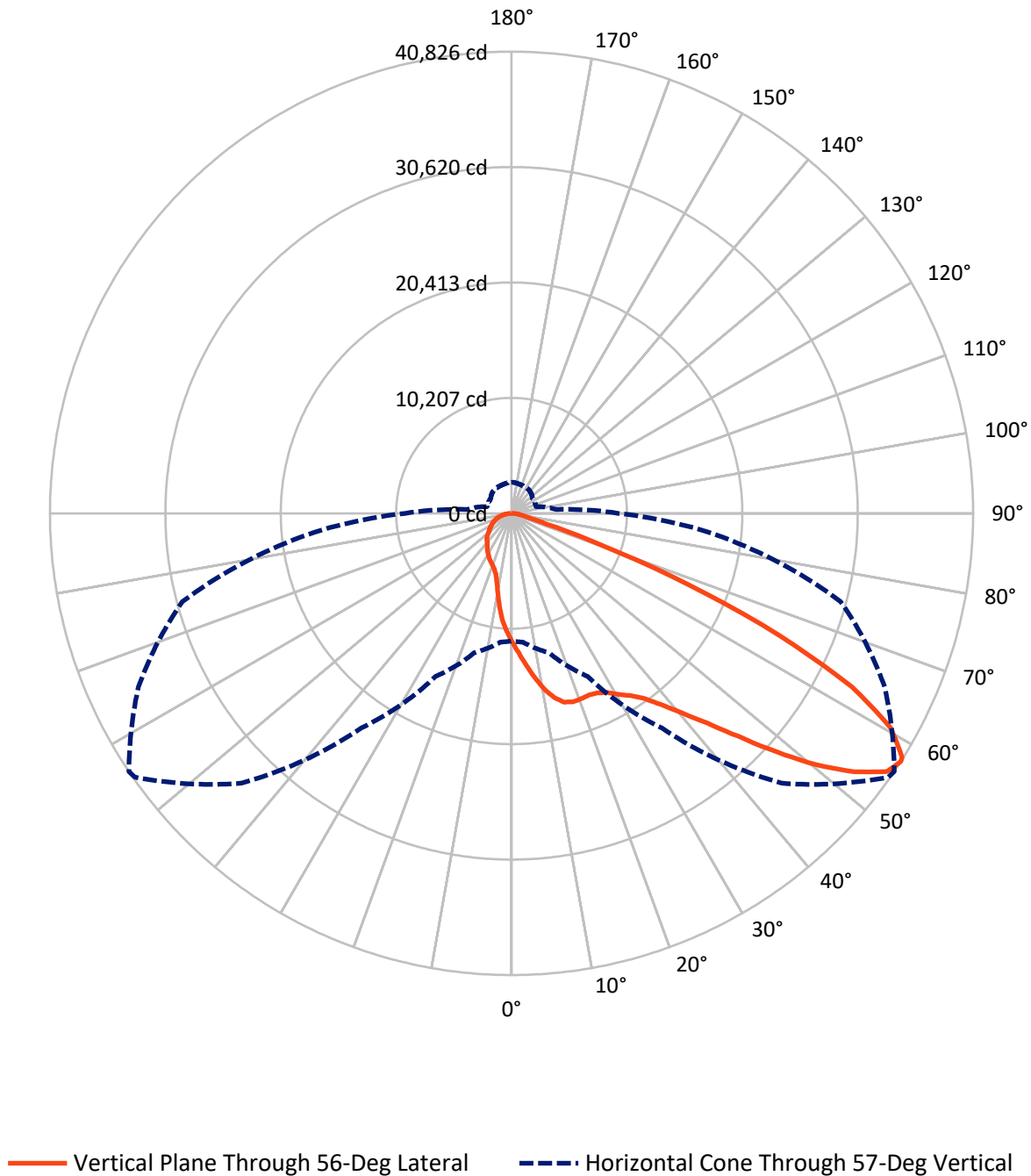


Based on 25 foot mounting height. Maximum calculated value = 25.3 fc

Type II - Short - N/A

REPORT NUMBER: P321133
CATALOG NUMBER: GAN-SA9C-830-U-AFL

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8886.1	0.0	8886.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	42663.9	0.0	42663.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	51550.0	0.0	51550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.2	2.1
10°-20°	3087.9	6.0
20°-30°	5029.7	9.8
30°-40°	7518.8	14.6
40°-50°	11404.4	22.1
50°-60°	12782.4	24.8
60°-70°	7549.8	14.6
70°-80°	2473.6	4.8
80°-90°	611.1	1.2
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°	51550.0	100.0
0°-180°	51550.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321133

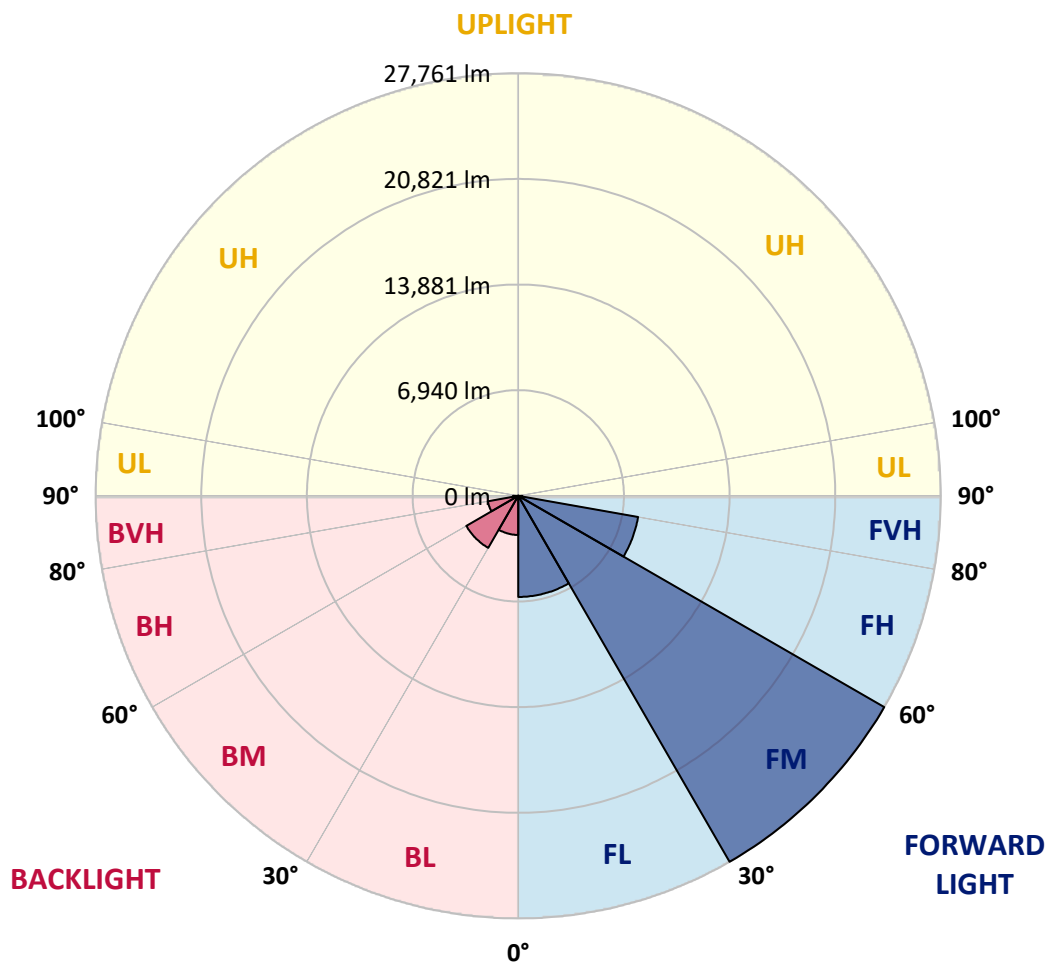
CATALOG NUMBER: GAN-SA9C-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6640.4	12.9			
FM	(30°-60°)	27761.4	53.9			
FH	(60°-80°)	7993.0	15.5			G4/12000
FVH	(80°-90°)	269.1	0.5			G3/500
BL	(0°-30°)	2569.5	5.0	B4/5000		
BM	(30°-60°)	3944.3	7.7	B3/5000		
BH	(60°-80°)	2030.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	342.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P321133

CATALOG NUMBER: GAN-SA9C-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8
2.5°	13129.2	13249.7	13196.6	13012.3	12870.6	12670.4	12447.2	12379.9	12144.2	11880.3	11563.2
5°	15207.3	15147.1	15060.3	14773.3	14470.3	14117.8	13558.0	13469.4	12945.0	12348.0	11717.3
7.5°	16390.7	16385.4	16334.1	16165.8	15889.4	15428.8	14753.8	14649.3	13857.4	12897.2	11919.3
10°	16218.9	16206.5	16291.5	16466.9	16550.2	16454.5	15885.8	15781.3	14808.7	13504.8	12153.1
12.5°	15242.8	15249.8	15386.3	15754.7	16256.1	16858.4	16766.3	16714.9	15795.5	14192.2	12436.6
15°	14482.7	14498.7	14606.8	14927.4	15519.1	16612.2	17301.3	17319.1	16750.4	14950.4	12767.8
17.5°	14149.7	14183.3	14232.9	14457.9	15000.0	16121.5	17428.9	17524.6	17586.6	15737.0	13086.7
20°	14256.0	14287.9	14302.0	14445.5	14890.2	15823.8	17340.3	17512.2	18227.9	16477.6	13405.6
22.5°	14732.5	14752.0	14760.9	14798.1	15143.5	15908.9	17281.9	17462.6	18692.0	17141.9	13646.6
25°	15522.7	15508.5	15451.8	15404.0	15636.0	16245.5	17416.5	17588.3	19069.4	17744.2	13804.2
27.5°	16468.7	16451.0	16341.1	16210.0	16342.9	16769.9	17804.5	17940.9	19407.8	18307.6	13883.9
30°	17604.3	17558.2	17350.9	17195.0	17246.4	17556.4	18444.0	18568.0	19930.4	18947.1	13961.9
32.5°	18917.0	18867.4	18568.0	18309.4	18309.4	18568.0	19103.0	19205.8	20373.3	19670.0	14087.7
35°	20561.1	20499.1	20109.3	19675.3	19553.0	19684.1	20001.2	20073.9	21170.5	20580.6	14316.2
37.5°	22499.2	22415.9	21911.0	21329.9	21062.4	21055.3	21283.9	21432.7	22444.3	21776.4	14704.2
40°	24442.6	24384.2	23943.0	23486.0	22961.6	22793.3	23145.8	23191.9	24109.6	23261.0	15200.2
42.5°	25944.9	25934.3	25852.8	25913.0	25376.2	25036.1	25312.5	25349.7	26143.3	24867.8	15728.2
45°	26738.6	26756.3	27151.4	28026.5	28225.0	27976.9	28113.3	28124.0	28467.7	26488.8	16211.8
47.5°	26102.6	26194.7	27193.9	29151.5	30776.0	31599.8	31373.1	31504.2	30721.1	27881.3	16590.9
50°	23624.1	23737.5	25438.2	28650.1	31966.6	35105.8	34987.1	34957.0	32538.8	28901.7	16796.4
52.5°	20554.0	20642.6	22045.7	26044.1	31093.2	37043.9	38133.5	37977.6	34154.5	29665.3	16835.4
55°	15878.8	16016.9	17361.6	20842.7	27560.6	36303.4	40447.2	40307.2	35626.7	30065.6	16789.4
57°	11288.6	11433.8	12769.6	15907.1	23184.8	33739.9	40677.5	40826.3	36422.1	30133.0	16840.7
57.5°	10073.3	10222.1	11545.4	14592.6	21820.7	32813.4	40479.0	40727.1	36565.6	30122.3	16869.1
60°	5072.1	5128.8	5972.0	8145.8	13793.6	26527.8	37890.8	38530.3	36694.9	29601.5	16991.3
62.5°	3153.4	3112.7	3086.1	3752.2	6710.8	17591.9	32549.4	33780.7	34220.0	28340.1	16695.5
65°	2772.5	2696.4	2404.0	2350.9	2963.9	8544.4	24511.7	26044.1	28931.8	26352.4	15990.4
67.5°	2604.2	2529.8	2200.3	2001.9	2003.7	3387.3	15218.0	16943.5	22538.2	22991.7	14326.8
70°	2430.6	2363.3	2055.0	1821.2	1706.0	1876.1	7001.3	8310.5	14691.8	18072.0	11974.2
72.5°	2207.4	2161.3	1869.0	1628.1	1505.9	1404.9	2680.4	3165.8	8505.4	12137.2	8315.8
75°	1973.6	1931.0	1681.2	1450.9	1302.1	1105.5	1509.4	1626.3	4320.9	6209.4	4094.1
77.5°	1716.7	1691.9	1495.2	1282.6	1163.9	915.9	1068.3	1125.0	1853.1	2662.7	2053.3
80°	1365.9	1413.7	1307.4	1142.7	1032.8	733.4	756.5	793.7	1078.9	1300.3	1165.7
82.5°	889.3	972.6	1024.0	928.3	850.4	577.5	543.9	559.8	703.3	793.7	506.7
85°	370.3	416.3	673.2	607.7	565.1	421.6	364.9	372.0	435.8	451.8	207.3
87.5°	164.8	175.4	295.9	278.1	239.2	145.3	155.9	170.1	232.1	219.7	79.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321133

CATALOG NUMBER: GAN-SA9C-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8	11433.8
2.5°	11444.5	11295.7	11040.5	10758.9	10528.6	10344.3	10158.3	10030.7	9881.9	9802.2	9761.5
5°	11453.3	11161.0	10624.2	10073.3	9580.8	9130.8	8702.0	8372.5	8064.3	7897.7	7851.7
7.5°	11490.5	11051.2	10183.1	9276.0	8400.9	7601.9	6985.4	6599.2	6321.0	6197.0	6161.6
10°	11520.6	10921.8	9637.4	8294.6	7104.1	6294.5	5816.1	5600.0	5504.3	5488.4	5472.4
12.5°	11591.5	10789.0	9063.5	7270.6	6096.0	5536.2	5369.7	5355.5	5382.1	5421.1	5421.1
15°	11703.1	10657.9	8408.0	6391.9	5454.7	5258.1	5291.7	5369.7	5442.3	5502.6	5511.4
17.5°	11784.6	10496.7	7702.9	5688.6	5112.8	5166.0	5286.4	5396.3	5470.7	5529.1	5534.4
20°	11843.1	10246.9	6949.9	5151.8	4916.2	5080.9	5231.5	5328.9	5380.3	5438.8	5447.6
22.5°	11813.0	9912.0	6282.1	4767.3	4756.7	4956.9	5100.4	5217.3	5178.4	5121.7	5158.9
25°	11667.7	9451.4	5594.7	4480.3	4588.4	4790.4	4967.5	4889.6	4758.5	4733.7	4747.9
27.5°	11409.0	8863.3	4958.7	4214.6	4393.5	4636.2	4625.6	4547.7	4501.6	4469.7	4489.2
30°	11130.9	8225.5	4402.4	3982.5	4177.4	4377.6	4336.9	4335.1	4289.0	4237.6	4262.4
32.5°	10856.3	7584.2	3961.3	3791.2	4014.4	4041.0	4129.6	4156.1	4065.8	3957.7	3950.6
35°	10617.1	6978.3	3626.4	3617.6	3817.8	3821.3	3950.6	3913.4	3688.4	3576.8	3576.8
37.5°	10438.2	6374.2	3371.3	3461.7	3559.1	3651.2	3716.8	3562.7	3525.5	3463.5	3461.7
40°	10360.3	5842.7	3211.9	3343.0	3376.6	3493.6	3325.3	3385.5	3403.2	3371.3	3371.3
42.5°	10278.8	5380.3	3073.7	3252.6	3247.3	3231.4	3146.3	3224.3	3295.2	3296.9	3291.6
45°	10197.3	4981.7	2951.5	3059.5	3133.9	2962.1	2978.0	3061.3	3160.5	3195.9	3195.9
47.5°	10106.9	4666.4	2839.9	2855.8	2971.0	2855.8	2843.4	2907.2	3024.1	3080.8	3093.2
50°	9908.5	4382.9	2712.3	2676.9	2708.8	2747.7	2758.4	2788.5	2917.8	3008.2	3029.4
52.5°	9633.9	4129.6	2549.3	2512.1	2512.1	2659.2	2708.8	2717.6	2827.5	2935.5	2956.8
55°	9405.4	3968.4	2381.0	2373.9	2366.8	2565.3	2650.3	2664.5	2740.6	2825.7	2836.3
57°	9421.3	3956.0	2251.7	2258.8	2257.0	2469.6	2595.4	2625.5	2664.5	2737.1	2749.5
57.5°	9430.2	3964.8	2223.3	2226.9	2225.1	2443.0	2579.4	2613.1	2643.2	2719.4	2731.8
60°	9563.0	3987.8	2108.2	2069.2	2078.1	2301.3	2489.1	2531.6	2551.1	2652.1	2668.0
62.5°	9366.4	3885.1	2016.1	1922.2	1922.2	2152.5	2363.3	2430.6	2460.7	2597.1	2623.7
65°	8795.9	3596.3	1908.0	1755.6	1773.4	2003.7	2212.7	2322.6	2368.6	2538.7	2567.0
67.5°	7915.5	3261.5	1792.8	1606.8	1624.5	1847.8	2056.8	2175.5	2248.1	2474.9	2497.9
70°	6769.2	2852.3	1636.9	1449.2	1470.4	1677.7	1872.6	2007.2	2115.3	2414.7	2421.8
72.5°	4990.6	2338.5	1419.0	1275.5	1298.6	1479.3	1686.6	1842.5	1987.7	2264.1	2260.5
75°	2967.4	1828.3	1178.1	1100.2	1116.1	1284.4	1518.3	1707.8	1925.7	2205.6	2239.3
77.5°	1799.9	1376.5	960.2	921.2	940.7	1112.6	1397.8	1599.7	1899.1	2079.8	2069.2
80°	1087.8	983.2	767.1	742.3	761.8	951.3	1293.3	1518.3	1660.0	1776.9	1776.9
82.5°	568.7	600.6	563.4	543.9	570.5	772.4	1176.3	1325.1	1466.9	1259.6	1176.3
85°	232.1	313.6	341.9	340.1	356.1	535.0	1015.1	1133.8	946.0	898.2	919.5
87.5°	77.9	132.9	166.5	143.5	150.6	336.6	703.3	547.4	650.2	453.5	430.5
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)