

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: P318892

Luminaire Tested: **GAN-SA8C-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45316 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

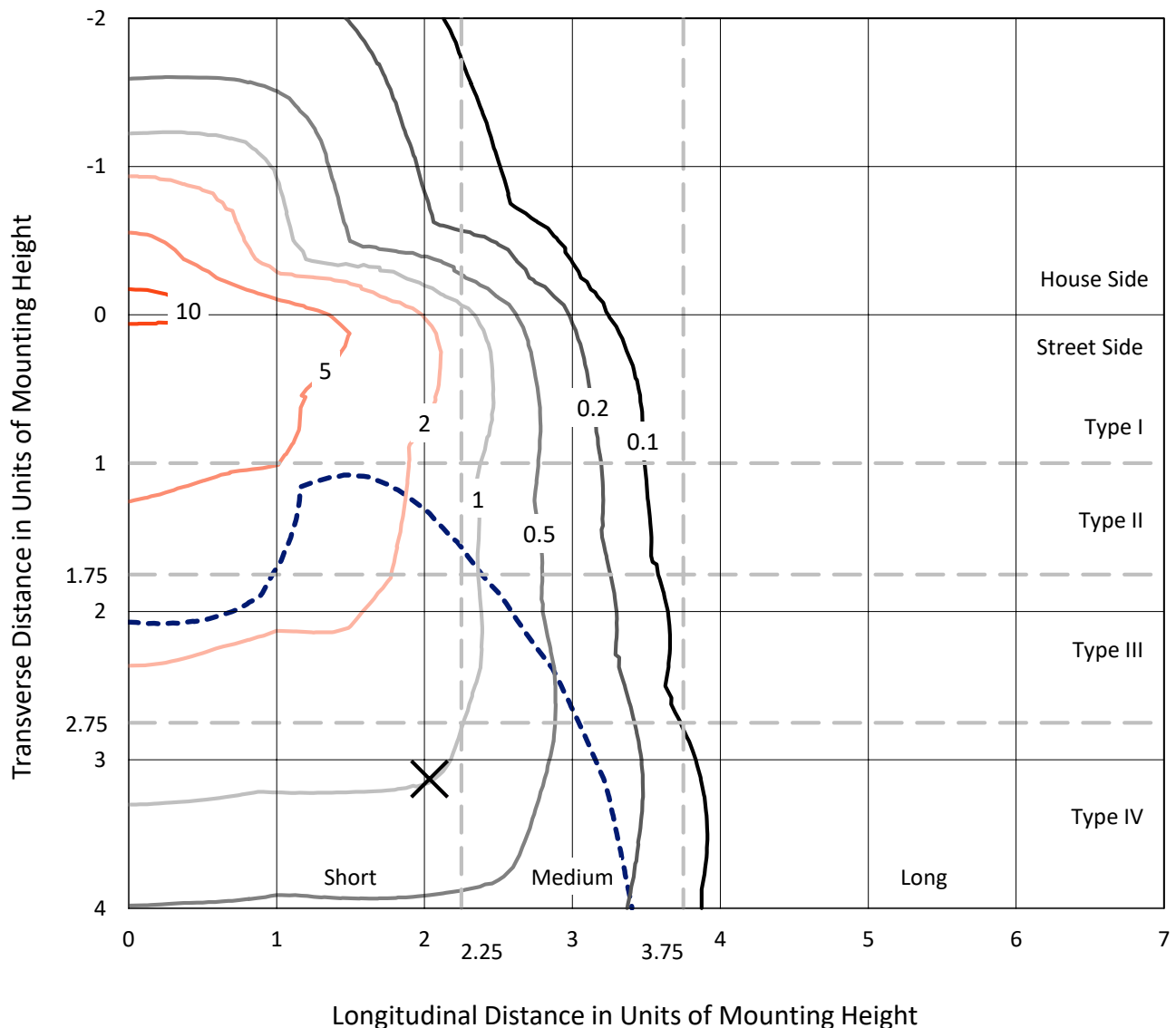
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318892
 CATALOG NUMBER: GAN-SA8C-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

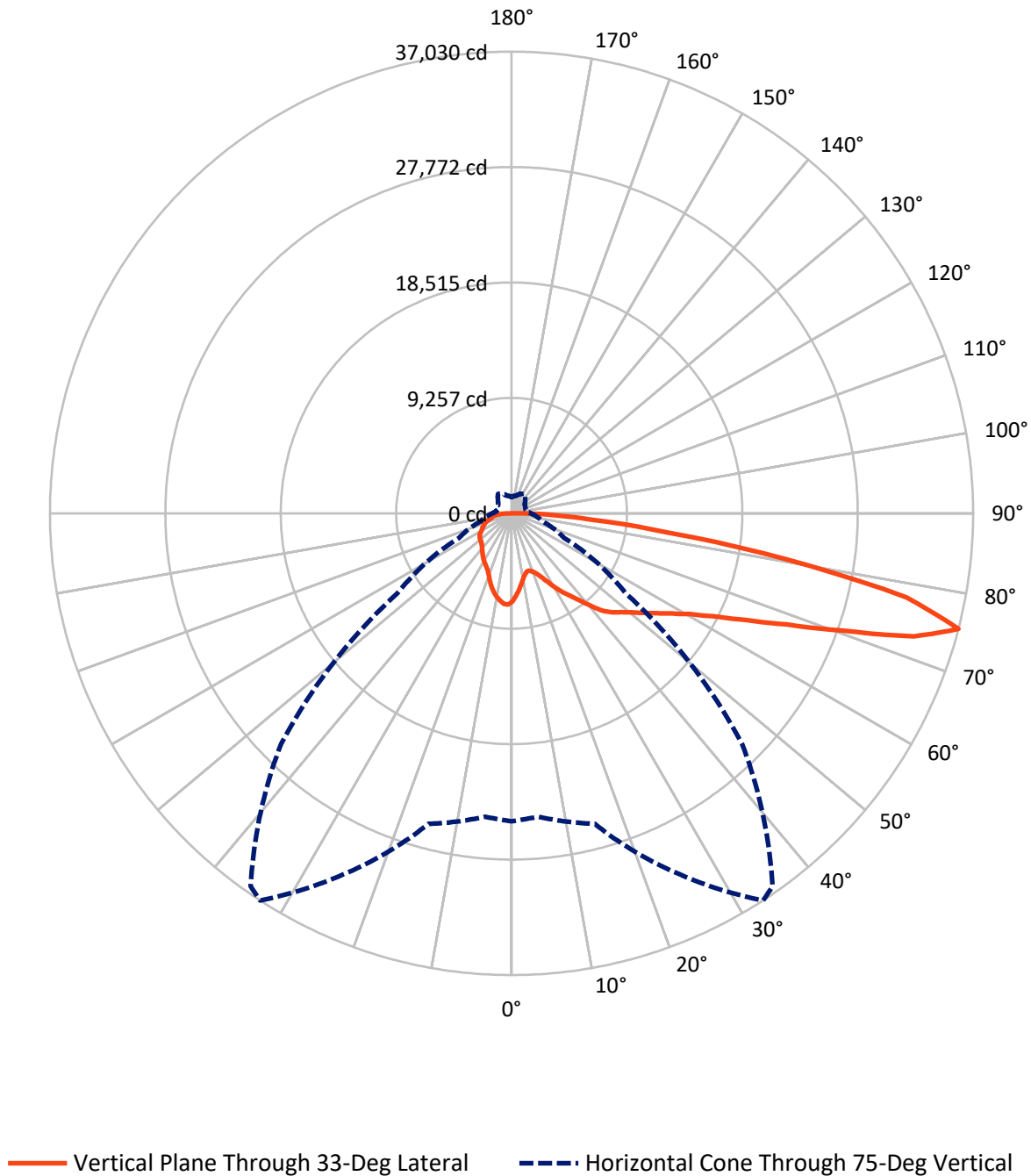
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P318892
CATALOG NUMBER: GAN-SA8C-830-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P318892

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9730.5	0.0	9730.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	35585.5	0.0	35585.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	45316.0	0.0	45316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	1.4
10°-20°	1735.0	3.8
20°-30°	2833.5	6.3
30°-40°	4219.7	9.3
40°-50°	6052.2	13.4
50°-60°	8308.7	18.3
60°-70°	10402.1	23.0
70°-80°	9410.3	20.8
80°-90°	1714.1	3.8
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°	45316.0	100.0
0°-180°	45316.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318892

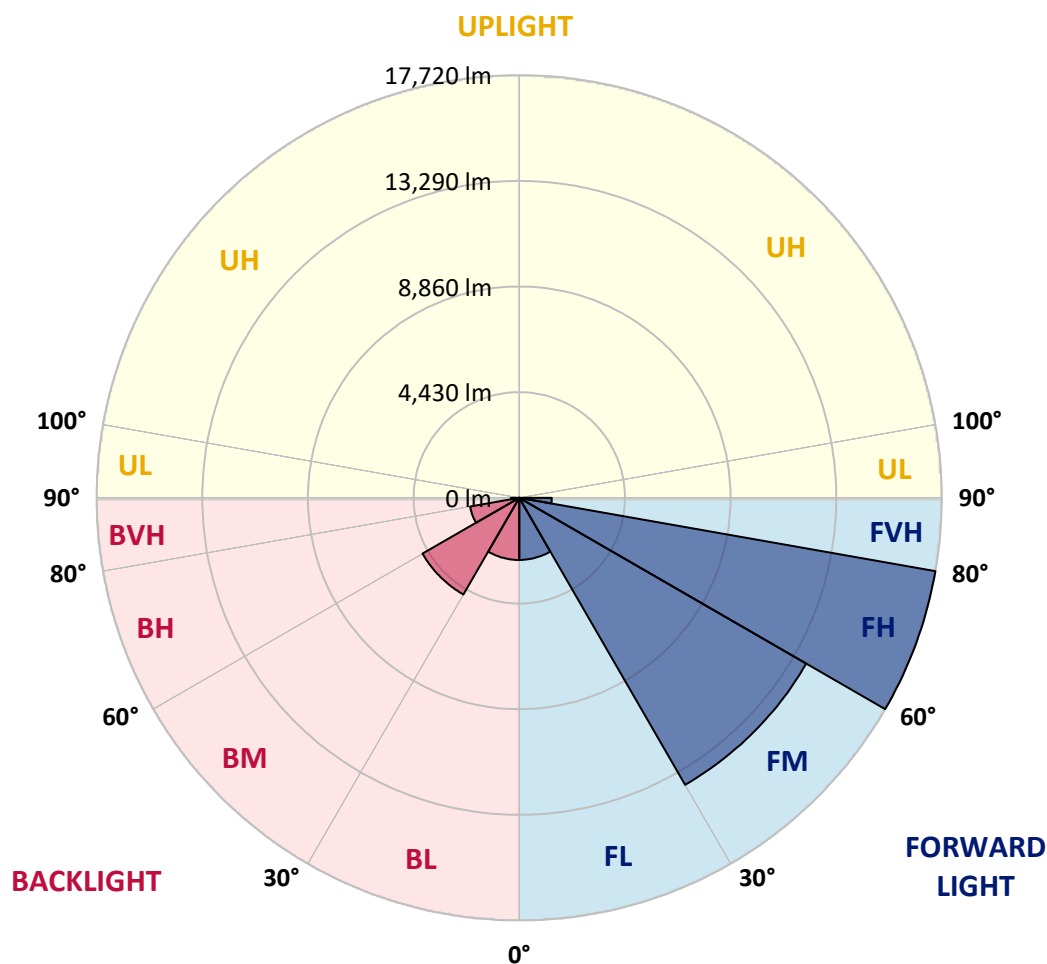
CATALOG NUMBER: GAN-SA8C-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2602.7	5.7			
FM	(30°-60°)	13897.5	30.7			
FH	(60°-80°)	17720.1	39.1			G5
FVH	(80°-90°)	1365.2	3.0			G5
BL	(0°-30°)	2606.3	5.8	B4/5000		
BM	(30°-60°)	4683.0	10.3	B3/5000		
BH	(60°-80°)	2092.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	349.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P318892

CATALOG NUMBER: GAN-SA8C-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1
2.5°	6577.5	6552.5	6599.5	6605.7	6646.4	6662.1	6718.4	6806.1	6878.1	6961.0	7036.2
5°	5981.1	5963.9	6029.7	6076.6	6165.9	6203.4	6336.5	6522.8	6688.7	6876.5	7047.1
7.5°	5414.5	5405.1	5478.7	5585.1	5688.4	5740.1	5970.2	6241.0	6518.1	6821.7	7083.1
10°	4937.1	4933.9	5004.4	5109.3	5261.1	5319.0	5616.4	5973.3	6361.5	6779.5	7144.2
12.5°	4669.4	4680.4	4713.2	4800.9	4941.8	4999.7	5330.0	5749.5	6230.0	6765.4	7233.4
15°	4735.1	4752.4	4696.0	4692.9	4793.1	4838.5	5148.4	5589.8	6136.1	6788.9	7363.3
17.5°	5015.3	5018.5	4869.8	4775.8	4836.9	4860.4	5092.0	5499.0	6081.3	6842.1	7526.1
20°	5409.8	5402.0	5139.0	4982.5	5015.3	5021.6	5171.9	5500.6	6076.6	6934.4	7737.5
22.5°	5932.6	5874.7	5520.9	5308.1	5300.2	5290.8	5376.9	5616.4	6145.5	7084.7	7989.5
25°	6615.1	6560.3	6073.5	5782.4	5719.7	5696.3	5708.8	5863.7	6281.7	7245.9	8271.2
27.5°	7374.3	7278.8	6809.2	6397.5	6267.6	6234.7	6159.6	6212.8	6430.4	7400.9	8606.2
30°	8009.8	7958.2	7548.0	7059.7	6906.3	6859.3	6662.1	6604.2	6644.9	7612.2	9028.9
32.5°	8365.2	8330.7	8081.8	7687.4	7544.9	7479.2	7200.5	7084.7	6989.2	7945.6	9601.8
35°	8795.6	8773.7	8623.4	8337.0	8125.7	8056.8	7840.8	7720.2	7474.5	8404.3	10342.2
37.5°	9343.5	9320.0	9323.1	9091.5	8839.5	8775.3	8632.8	8506.0	8103.7	9006.9	11146.8
40°	9963.4	9918.0	9900.7	9889.8	9730.1	9694.1	9619.0	9446.8	8892.7	9727.0	11940.4
42.5°	10896.3	10735.1	10390.7	10520.6	10678.7	10659.9	10721.0	10473.7	9769.3	10578.5	12715.2
45°	11796.4	11531.8	10937.0	10965.2	11311.1	11416.0	11873.1	11697.8	10719.4	11511.5	13516.7
47.5°	12206.5	12006.1	11500.5	11502.1	11844.9	12062.5	13064.3	12939.1	11718.1	12571.2	14495.0
50°	12665.1	12464.8	12010.8	12181.4	12480.4	12712.1	14214.8	14150.6	12668.3	13731.1	15667.4
52.5°	13166.0	12826.4	12538.3	12843.6	13263.1	13532.3	15366.9	15191.6	13540.2	14898.9	17015.2
55°	13172.3	13079.9	13299.1	13522.9	14150.6	14480.9	16573.8	16110.4	14250.8	16046.3	18112.5
57.5°	13922.1	13771.8	14236.7	14340.0	15160.3	15532.8	17774.4	16910.3	14974.0	16926.0	18704.2
60°	14914.5	14786.2	15166.5	15438.9	16409.4	16907.2	19056.4	17732.1	15542.2	17589.7	18676.0
62.5°	16628.6	16483.0	16478.3	16860.2	18167.3	18746.5	20494.9	18538.3	15767.6	17721.2	17879.3
65°	19137.8	18906.1	18469.4	18651.0	20595.1	21172.7	22102.5	19122.1	15470.2	17016.8	15827.1
67.5°	21579.7	21571.9	21035.0	21407.5	23800.9	24264.3	23934.0	19180.1	14542.0	14563.9	12186.1
70°	24013.8	24045.1	23954.3	25250.4	28132.2	28614.3	25884.4	18402.1	12455.4	10517.5	7300.7
72.5°	25942.3	25934.5	26391.6	29733.6	33753.3	33645.3	27528.0	16044.7	8942.8	5677.5	3489.1
75°	24693.2	24420.8	25782.6	31953.2	37029.6	36502.1	26130.2	11192.2	4641.2	2584.4	1878.4
77.5°	16105.7	16364.0	18363.0	26396.3	32389.9	31748.1	19170.7	5222.0	2186.8	1695.3	1361.8
80°	5832.4	6104.8	8598.4	14952.1	22315.4	22210.6	9440.5	2146.1	1479.2	1280.4	992.4
82.5°	2006.8	2106.9	3392.1	6640.2	12599.4	13069.0	3551.7	1219.4	1075.4	907.9	679.4
85°	787.4	901.6	1551.2	3194.9	6355.3	6402.2	1438.5	729.4	748.2	594.8	372.5
87.5°	299.0	363.2	742.0	1483.9	2902.1	2665.8	515.0	347.5	425.8	353.8	176.9
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: P318892

CATALOG NUMBER: GAN-SA8C-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1	7083.1
2.5°	7094.1	7127.0	7195.8	7242.8	7292.9	7307.0	7313.2	7325.8	7338.3	7333.6	7335.2
5°	7137.9	7202.1	7313.2	7360.2	7382.1	7357.1	7308.6	7269.4	7241.2	7225.6	7220.9
7.5°	7209.9	7300.7	7419.7	7411.9	7361.8	7250.6	7125.4	7031.5	6953.2	6925.0	6909.4
10°	7305.4	7411.9	7494.8	7405.6	7260.0	7067.5	6879.7	6734.1	6616.7	6571.3	6563.5
12.5°	7427.5	7535.5	7551.2	7361.8	7120.7	6857.7	6602.6	6410.1	6234.7	6178.4	6165.9
15°	7585.6	7687.4	7590.3	7285.1	6948.5	6594.8	6264.5	6003.1	5818.4	5749.5	5724.4
17.5°	7751.5	7848.6	7598.1	7158.3	6723.1	6283.3	5868.4	5600.8	5389.5	5309.6	5300.2
20°	7950.3	7994.2	7565.3	6976.7	6413.2	5879.4	5442.7	5190.7	5077.9	5021.6	5015.3
22.5°	8196.1	8149.1	7490.1	6730.9	6020.3	5412.9	5057.6	4940.2	4912.0	4899.5	4904.2
25°	8455.9	8311.9	7379.0	6410.1	5524.1	4946.5	4775.8	4808.7	4846.3	4841.6	4841.6
27.5°	8742.4	8477.9	7208.4	5984.3	4974.6	4564.5	4584.9	4705.4	4761.8	4760.2	4758.6
30°	9110.3	8665.7	6990.8	5472.4	4461.2	4295.3	4418.9	4566.1	4642.8	4639.7	4641.2
32.5°	9562.6	8872.3	6694.9	4901.1	4090.2	4096.5	4238.9	4384.5	4473.7	4465.9	4467.5
35°	10091.7	9104.0	6294.2	4337.5	3844.5	3938.4	4051.1	4152.8	4237.4	4226.4	4215.4
37.5°	10667.8	9331.0	5762.0	3833.5	3644.1	3791.2	3885.2	3902.4	3941.5	3913.3	3893.0
40°	11215.6	9504.7	5076.4	3420.3	3442.2	3666.0	3727.1	3658.2	3587.7	3578.4	3550.2
42.5°	11693.1	9562.6	4382.9	3090.0	3229.3	3534.5	3572.1	3428.1	3301.3	3241.8	3216.8
45°	12197.1	9583.0	3736.5	2812.9	3024.2	3417.1	3457.8	3265.3	3086.8	2958.5	2916.2
47.5°	12856.1	9730.1	3234.0	2607.8	2867.7	3338.9	3396.8	3135.4	2903.7	2720.6	2681.4
50°	13718.6	10021.3	2825.4	2451.3	2765.9	3287.2	3352.9	3008.6	2753.4	2532.7	2493.6
52.5°	14676.6	10289.0	2495.1	2324.5	2667.3	3196.4	3296.6	2917.8	2612.5	2359.0	2316.7
55°	15346.6	10083.9	2229.0	2193.0	2539.0	3066.5	3218.3	2841.1	2410.6	2189.9	2152.3
57.5°	15474.9	9382.6	2027.1	2056.9	2384.0	2903.7	3097.8	2670.5	2301.0	2116.3	2077.2
60°	15124.3	8405.9	1876.8	1931.6	2218.1	2698.6	2872.4	2549.9	2196.2	2038.1	2005.2
62.5°	14243.0	7405.6	1765.7	1818.9	2063.1	2490.4	2731.5	2423.1	2089.7	1948.8	1916.0
65°	12463.2	6217.5	1659.3	1718.7	1919.1	2310.4	2604.7	2305.7	1984.8	1876.8	1845.5
67.5°	9407.7	4656.9	1559.1	1612.3	1790.7	2153.9	2467.0	2189.9	1883.1	1814.2	1776.7
70°	5539.7	2916.2	1444.8	1501.2	1656.1	1991.1	2319.8	2063.1	1756.3	1725.0	1676.5
72.5°	2578.1	1754.7	1314.9	1369.7	1487.1	1773.5	2130.4	1897.2	1606.0	1537.2	1471.4
75°	1538.7	1283.6	1161.5	1210.0	1293.0	1541.9	1892.5	1728.1	1463.6	1372.8	1303.9
77.5°	1150.5	981.5	992.4	1044.1	1111.4	1349.3	1676.5	1595.1	1354.0	1283.6	1236.6
80°	828.1	745.1	809.3	865.6	936.1	1227.2	1606.0	1474.5	1224.1	1130.2	1086.3
82.5°	552.6	535.3	608.9	666.8	735.7	1073.8	1509.0	1291.4	1045.6	926.7	829.6
85°	305.2	322.5	410.1	435.2	494.6	756.1	1236.6	1037.8	787.4	634.0	605.8
87.5°	126.8	148.7	220.7	212.9	263.0	450.8	814.0	626.1	500.9	374.1	291.2
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)