

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: P317940

Luminaire Tested: **GAN-SA6D-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37703 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

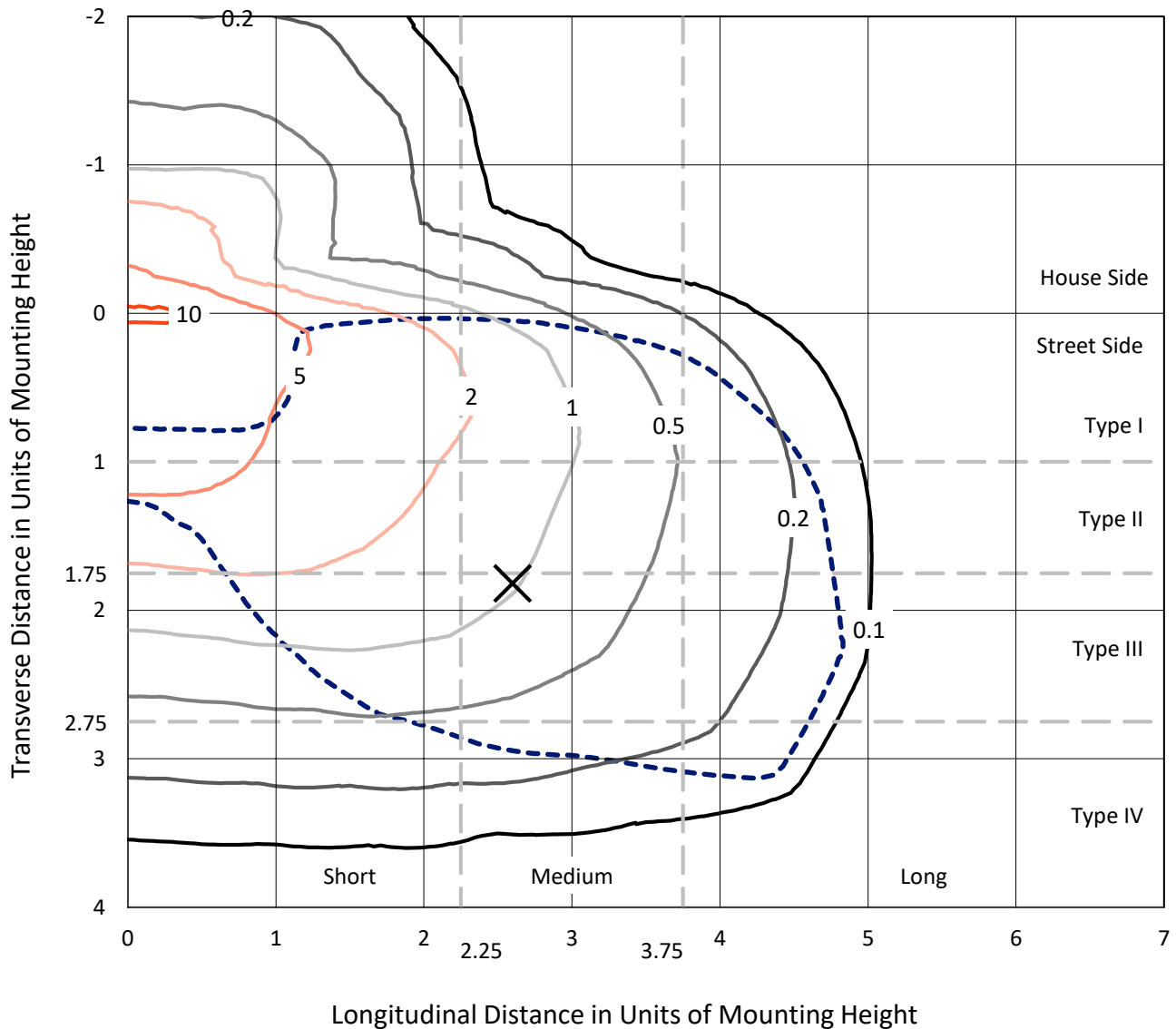
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

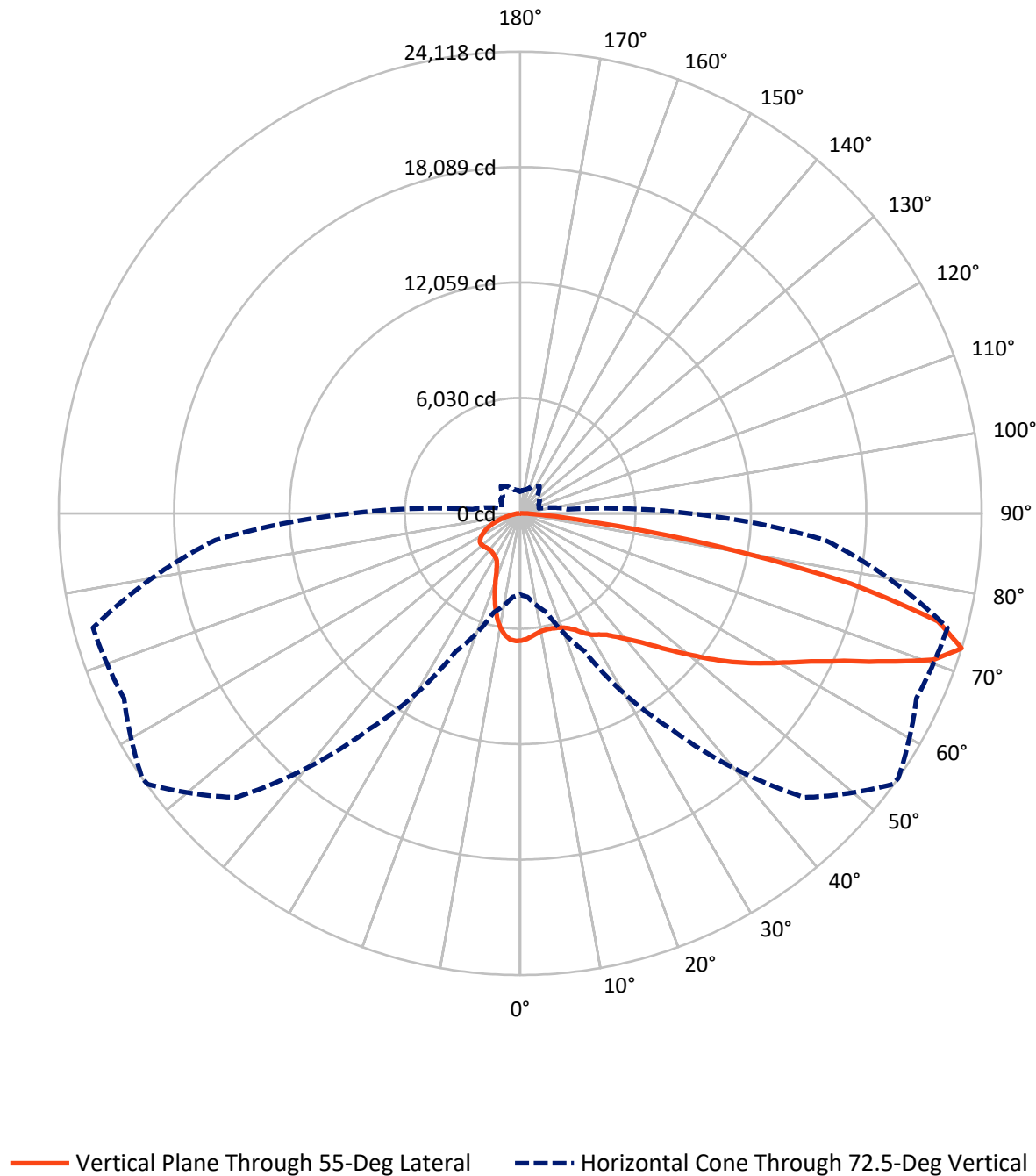
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7007.8	0.0	7007.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30695.2	0.0	30695.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	37703.0	0.0	37703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.7	1.6
10°-20°	1602.1	4.2
20°-30°	2641.4	7.0
30°-40°	3907.3	10.4
40°-50°	5453.8	14.5
50°-60°	7101.0	18.8
60°-70°	8726.9	23.1
70°-80°	6840.9	18.1
80°-90°	827.8	2.2
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°	37703.0	100.0
0°-180°	37703.0	100.0

Coefficient of Utilization



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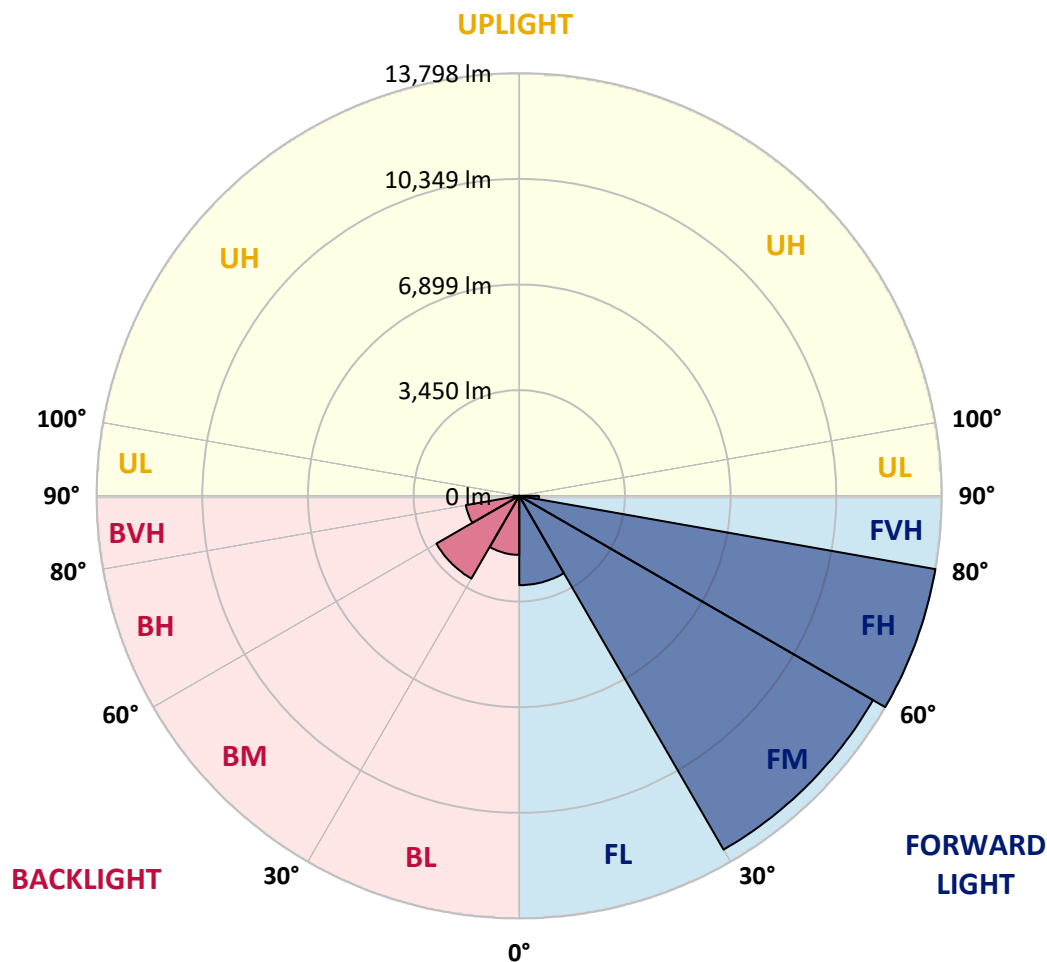
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2917.1	7.7			
FM	(30°-60°)	13340.1	35.4			
FH	(60°-80°)	13798.0	36.6			G5
FVH	(80°-90°)	640.0	1.7			G4/750
BL	(0°-30°)	1928.1	5.1	B3/2500		
BM	(30°-60°)	3122.1	8.3	B3/5000		
BH	(60°-80°)	1769.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	187.8	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0
2.5°	6433.5	6418.2	6437.3	6464.1	6493.4	6532.8	6555.8	6565.9	6605.4	6620.7	6653.8
5°	6135.5	6127.9	6159.7	6205.6	6270.5	6362.2	6436.1	6450.1	6554.5	6628.3	6695.8
7.5°	5919.0	5919.0	5956.0	6010.7	6083.3	6206.8	6311.3	6330.4	6507.4	6666.6	6791.4
10°	5747.1	5753.5	5796.8	5861.7	5947.0	6078.2	6217.0	6238.7	6494.6	6755.7	6954.4
12.5°	5632.5	5647.8	5687.3	5745.8	5851.5	6010.7	6186.5	6215.7	6521.4	6883.0	7150.5
15°	5705.1	5730.6	5734.4	5758.6	5817.2	5990.3	6204.3	6234.9	6578.7	7012.9	7373.3
17.5°	6023.5	6032.4	5992.9	5942.0	5913.9	6024.7	6257.8	6289.6	6647.5	7141.6	7587.3
20°	6507.4	6502.3	6417.0	6279.4	6136.8	6154.6	6345.6	6378.8	6740.4	7254.9	7801.2
22.5°	7118.6	7100.8	6969.6	6716.2	6473.0	6371.1	6499.7	6527.7	6880.5	7416.6	8030.4
25°	7859.8	7820.3	7647.1	7307.1	6949.3	6686.9	6731.5	6758.2	7084.2	7597.5	8240.5
27.5°	8641.7	8602.2	8381.9	7970.6	7494.3	7085.5	7051.1	7074.1	7316.0	7731.2	8395.9
30°	9459.2	9417.2	9216.0	8755.0	8072.5	7498.1	7349.1	7358.0	7479.0	7803.8	8523.3
32.5°	10280.6	10241.1	10015.7	9480.9	8700.3	7941.3	7564.3	7552.9	7577.1	7878.9	8667.2
35°	11113.5	11128.7	10865.1	10273.0	9395.6	8434.1	7819.0	7794.8	7741.4	8033.0	8870.9
37.5°	12004.9	11994.7	11653.4	11034.5	10122.7	8969.0	8184.5	8180.7	7996.0	8324.6	9190.5
40°	12600.9	12607.2	12399.7	11813.9	10857.5	9561.1	8653.1	8644.2	8402.3	8761.4	9609.5
42.5°	12833.9	12875.9	12929.4	12557.6	11626.7	10247.5	9212.2	9199.5	8969.0	9387.9	10102.3
45°	12850.5	12934.5	13265.6	13218.5	12406.0	11033.2	9926.6	9890.9	9725.4	10220.8	10690.7
47.5°	12707.8	12794.4	13344.6	13612.0	13102.6	11862.3	10762.0	10734.0	10591.4	11262.5	11327.4
50°	12395.8	12478.6	13181.6	13804.3	13675.7	12659.4	11724.7	11650.9	11574.5	12465.9	12055.8
52.5°	11811.3	11970.5	12963.8	13850.1	14018.2	13367.5	12737.1	12688.7	12730.8	13735.5	12785.5
55°	10427.1	10605.4	12402.2	13811.9	14271.6	13962.2	13749.5	13747.0	13964.7	15067.6	13568.7
57.5°	9651.5	9777.6	11258.6	13747.0	14572.2	14553.1	14751.7	14775.9	15200.0	16518.0	14388.8
60°	9213.5	9345.9	10679.2	13506.3	15038.3	15317.2	15774.3	15822.7	16455.6	18123.9	15375.7
62.5°	8814.9	8960.1	10320.1	13016.0	15587.1	16409.8	16999.4	17042.7	17785.1	19774.3	16329.6
65°	8133.6	8297.9	9794.2	12693.8	16086.3	17834.8	18556.8	18586.1	19312.0	21503.6	17059.2
67.5°	7170.8	7321.1	8802.1	11982.0	16455.6	19565.4	20627.5	20644.0	20826.1	22724.9	17432.4
70°	6046.4	6103.7	7388.6	10512.4	16018.8	21184.0	22896.8	22900.6	22206.6	23506.8	17371.2
72.5°	4248.3	4383.2	5363.8	7957.8	13766.1	20986.6	24074.7	24118.0	22848.4	23112.0	15983.2
75°	2605.5	2748.1	3364.5	4822.6	8733.4	16505.3	22243.5	22544.0	21645.0	20607.1	13056.8
77.5°	1742.1	1795.6	2195.4	2811.8	3956.6	9496.2	17101.3	17666.7	17981.2	15028.1	8350.1
80°	971.6	1073.5	1455.6	1747.2	1759.9	3773.3	10253.9	10386.3	10004.3	5984.0	2576.2
82.5°	514.5	570.5	971.6	1026.4	960.2	1263.3	3821.6	3825.5	3196.4	1604.6	765.3
85°	398.6	445.7	666.0	626.5	490.3	560.3	1260.7	1329.5	1087.5	657.1	249.6
87.5°	198.7	247.1	452.1	397.3	192.3	160.5	450.8	481.4	429.2	257.2	90.4
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°	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0	6650.0
2.5°	6666.6	6678.0	6692.0	6676.7	6671.6	6651.3	6616.9	6609.2	6591.4	6592.7	6602.9
5°	6725.1	6744.2	6736.6	6678.0	6608.0	6509.9	6408.0	6321.4	6264.1	6260.3	6256.5
7.5°	6837.2	6849.9	6790.1	6623.3	6427.1	6200.5	5986.5	5799.3	5686.0	5658.0	5651.6
10°	7012.9	7010.4	6846.1	6509.9	6119.0	5714.0	5370.2	5110.4	4958.8	4914.3	4902.8
12.5°	7209.0	7179.8	6865.2	6303.6	5683.4	5121.8	4686.3	4397.3	4239.3	4188.4	4175.7
15°	7411.5	7338.9	6818.1	5995.4	5148.6	4483.8	4026.7	3759.2	3673.9	3645.9	3640.8
17.5°	7600.0	7459.9	6683.1	5577.7	4538.6	3848.4	3491.8	3384.9	3405.2	3442.2	3443.4
20°	7784.6	7541.4	6466.6	5050.5	3895.5	3325.0	3204.0	3283.0	3379.8	3454.9	3465.1
22.5°	7966.8	7598.7	6187.7	4441.8	3319.9	3030.8	3116.2	3260.1	3370.8	3452.3	3466.4
25°	8119.6	7612.7	5803.1	3792.4	2920.0	2920.0	3074.1	3210.4	3319.9	3400.1	3414.1
27.5°	8175.6	7518.5	5260.7	3191.3	2718.8	2869.1	3015.5	3128.9	3221.8	3307.2	3322.5
30°	8197.2	7344.0	4634.1	2708.6	2636.1	2814.3	2936.6	3033.4	3121.2	3201.5	3215.5
32.5°	8201.1	7133.9	3969.4	2434.9	2578.8	2757.0	2838.5	2923.9	3018.1	3049.9	3055.0
35°	8225.3	6885.6	3269.0	2294.8	2525.3	2703.6	2768.5	2829.6	2676.8	2688.3	2698.5
37.5°	8295.3	6639.8	2683.2	2215.8	2490.9	2675.5	2753.2	2531.6	2411.9	2383.9	2380.1
40°	8426.5	6377.5	2248.9	2152.1	2478.1	2689.5	2655.2	2363.5	2157.2	2003.1	1980.2
42.5°	8608.6	6094.8	1971.3	2110.1	2487.1	2757.0	2518.9	2201.8	1859.2	1759.9	1747.2
45°	8813.6	5798.1	1821.0	2080.8	2517.6	2809.2	2490.9	1986.6	1720.4	1645.3	1638.9
47.5°	9012.3	5435.1	1743.4	2068.1	2559.7	2767.2	2372.5	1920.4	1654.2	1614.7	1618.6
50°	9240.2	5107.8	1696.2	2054.1	2596.6	2740.5	2238.7	1886.0	1628.8	1677.1	1728.1
52.5°	9432.5	4769.1	1654.2	2026.1	2610.6	2693.4	2204.4	1892.4	1628.8	1721.7	1770.1
55°	9660.5	4513.1	1605.8	1967.5	2583.8	2559.7	2180.2	1930.6	1647.9	1589.3	1594.4
57.5°	9954.6	4429.1	1552.3	1875.8	2494.7	2364.8	2168.7	1967.5	1636.4	1599.5	1612.2
60°	10362.1	4518.2	1530.7	1756.1	2355.9	2212.0	2170.0	1948.4	1556.2	1492.5	1493.8
62.5°	10750.5	4617.6	1529.4	1681.0	2185.3	2075.7	2140.7	1886.0	1515.4	1478.5	1492.5
65°	10877.9	4517.0	1468.3	1596.9	1993.0	1912.7	2087.2	1819.8	1484.9	1428.8	1426.3
67.5°	10707.2	4205.0	1344.8	1460.7	1772.7	1723.0	2017.2	1740.8	1436.5	1390.6	1383.0
70°	10200.4	3508.4	1192.0	1281.1	1521.8	1509.0	1906.4	1649.1	1371.5	1332.0	1298.9
72.5°	8836.5	2499.8	1004.8	1065.9	1239.1	1279.8	1753.6	1529.4	1279.8	1194.5	1143.6
75°	7257.4	1850.3	825.2	837.9	941.1	1051.9	1543.4	1389.3	1171.6	1026.4	986.9
77.5°	4444.4	1132.1	657.1	662.2	674.9	839.2	1270.9	1232.7	1034.0	855.8	827.7
80°	1439.0	617.6	475.0	499.2	461.0	615.1	983.1	1049.3	887.6	715.7	685.1
82.5°	547.6	360.4	320.9	337.5	319.6	412.6	717.0	840.5	727.1	588.3	478.8
85°	264.9	203.8	189.7	212.7	197.4	211.4	458.4	618.9	551.4	383.3	356.6
87.5°	94.2	90.4	72.6	98.1	84.0	75.1	140.1	312.0	364.2	263.6	235.6
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)