

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: P318260

Luminaire Tested: **GAN-SA6D-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36189 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

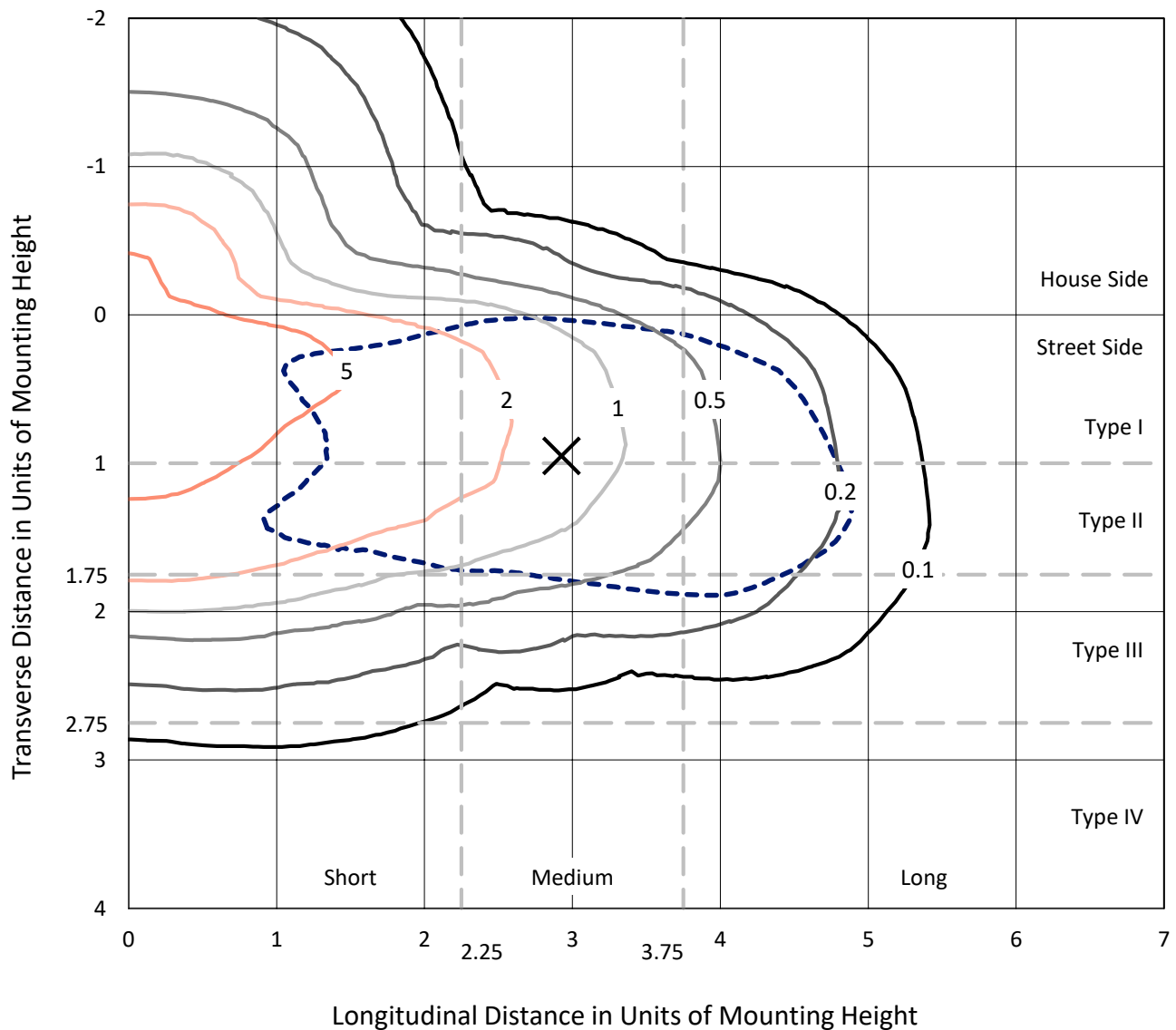
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318260
CATALOG NUMBER: GAN-SA6D-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

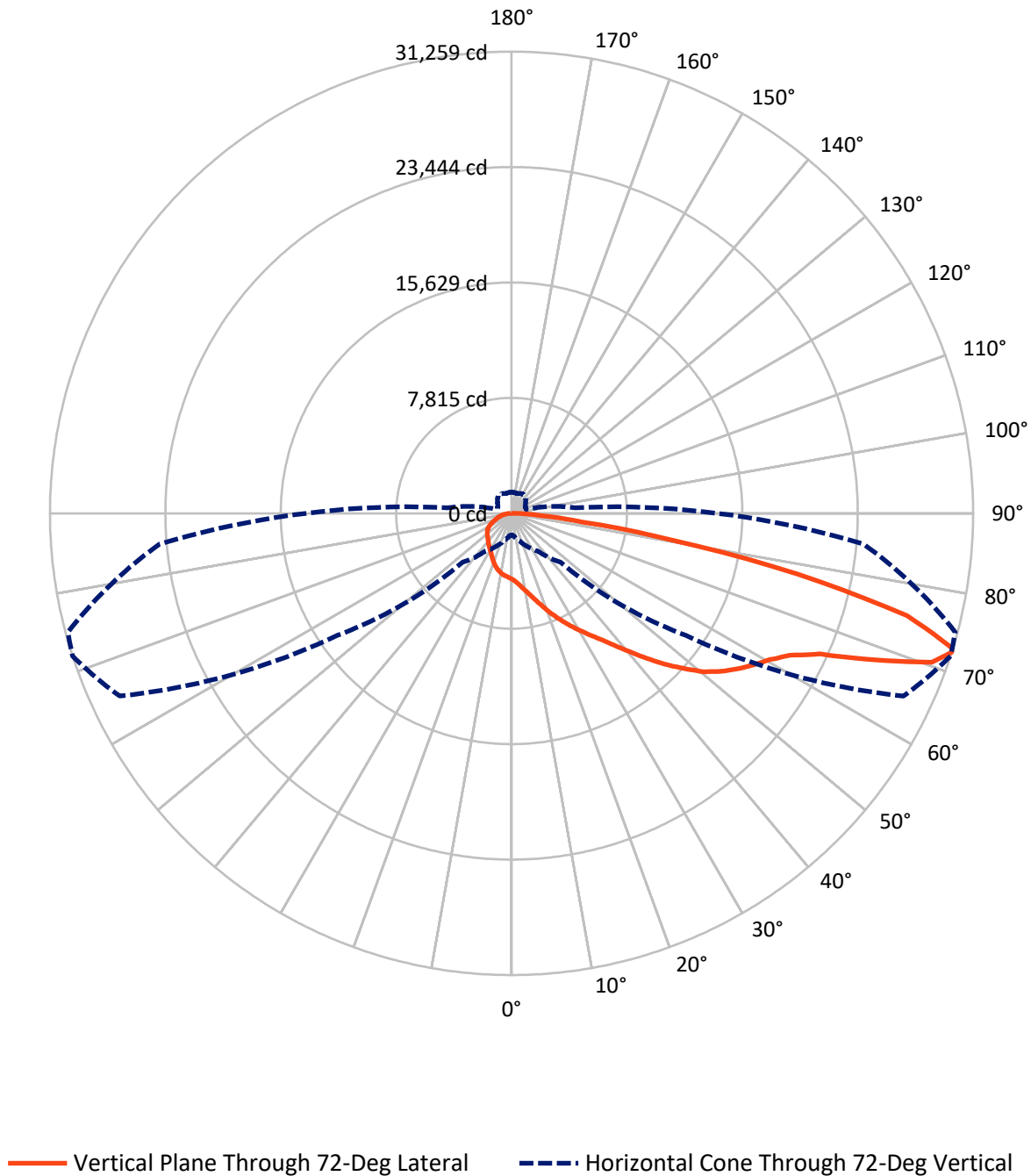
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type III - Medium - N/A

REPORT NUMBER: P318260
CATALOG NUMBER: GAN-SA6D-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318260

CATALOG NUMBER: GAN-SA6D-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6713.3	0.0	6713.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29475.7	0.0	29475.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	36189.0	0.0	36189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	1.2
10°-20°	1441.7	4.0
20°-30°	2526.2	7.0
30°-40°	3745.6	10.4
40°-50°	5478.2	15.1
50°-60°	7538.0	20.8
60°-70°	8392.1	23.2
70°-80°	5686.5	15.7
80°-90°	934.6	2.6
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°	36189.0	100.0
0°-180°	36189.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318260

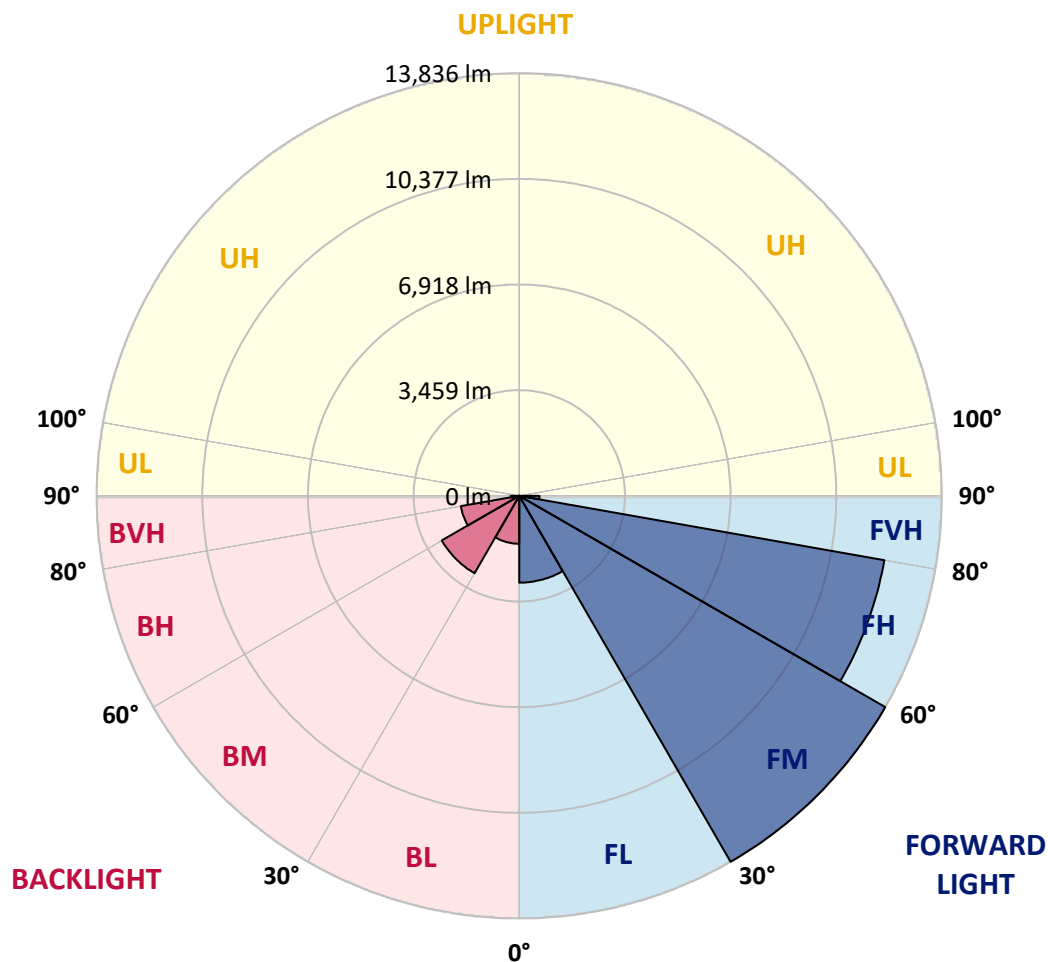
CATALOG NUMBER: GAN-SA6D-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2844.7	7.9			
FM	(30°-60°)	13835.5	38.2			
FH	(60°-80°)	12136.3	33.5			G5
FVH	(80°-90°)	659.3	1.8			G4/750
BL	(0°-30°)	1569.3	4.3	B3/2500		
BM	(30°-60°)	2926.4	8.1	B3/5000		
BH	(60°-80°)	1942.2	5.4	B3/2500		G3/2500
BVH	(80°-90°)	275.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P318260

CATALOG NUMBER: GAN-SA6D-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2
2.5°	4918.2	4910.7	4884.6	4884.6	4834.7	4792.4	4712.6	4659.0	4595.5	4573.1	4498.3
5°	5394.2	5396.7	5364.3	5341.9	5268.4	5178.6	5042.8	4919.5	4796.1	4746.3	4593.0
7.5°	5794.2	5789.2	5780.5	5761.8	5693.3	5601.1	5417.9	5234.7	5052.8	4978.0	4713.9
10°	6050.9	6062.1	6069.6	6078.3	6049.6	5983.6	5810.4	5587.4	5349.4	5247.2	4858.4
12.5°	6180.5	6200.4	6235.3	6295.1	6342.5	6335.0	6209.1	5972.4	5689.5	5561.2	5039.1
15°	6256.5	6282.7	6337.5	6444.6	6578.0	6654.0	6620.3	6406.0	6090.8	5932.5	5259.6
17.5°	6303.8	6325.0	6409.8	6553.1	6751.2	6953.0	7041.5	6862.1	6544.3	6363.7	5512.6
20°	6336.2	6352.4	6458.4	6626.6	6883.3	7204.7	7451.5	7406.6	7044.0	6809.7	5776.8
22.5°	6408.5	6422.2	6523.2	6692.6	6976.7	7391.7	7846.5	7913.8	7571.1	7305.7	6059.6
25°	6610.4	6610.4	6695.1	6813.5	7080.1	7553.6	8180.4	8478.2	8109.4	7800.4	6321.3
27.5°	6995.4	6991.7	7022.8	7063.9	7265.8	7718.1	8478.2	8976.7	8667.6	8329.9	6575.5
30°	7451.5	7476.4	7480.1	7460.2	7554.9	7923.7	8753.6	9502.5	9229.6	8865.8	6835.9
32.5°	8038.4	8054.6	8035.9	7969.8	7956.1	8215.3	9024.0	10053.3	9837.7	9425.2	7073.9
35°	8783.5	8752.4	8693.8	8559.2	8430.9	8605.3	9333.0	10604.0	10520.5	10101.9	7401.6
37.5°	9582.2	9583.5	9511.2	9205.9	9029.0	9103.8	9759.2	11228.3	11346.7	10906.8	7821.6
40°	10222.7	10256.4	10301.2	9900.0	9670.7	9774.1	10301.2	11952.3	12323.6	11861.3	8368.6
42.5°	10670.1	10708.7	10835.8	10584.1	10346.1	10538.0	10939.2	12724.8	13420.1	12962.8	9009.1
45°	11143.6	11164.7	11254.5	11146.1	10994.0	11426.4	11658.2	13524.8	14580.2	14136.6	9725.5
47.5°	11642.0	11664.4	11756.6	11684.4	11604.6	12256.3	12408.3	14278.7	15691.7	15426.3	10490.6
50°	12257.5	12272.5	12359.7	12228.9	12253.8	12881.8	13078.7	14970.2	16856.8	16585.1	11258.2
52.5°	13097.4	13101.1	13222.0	13103.6	12986.5	13340.4	13655.6	15621.9	17770.1	17641.8	12025.8
55°	13755.3	13795.2	14191.4	14166.5	14099.2	13756.6	14137.9	16242.5	18585.1	18646.1	12840.7
57.5°	13335.4	13491.1	14293.6	14859.3	15410.1	14792.0	14789.5	16941.5	19342.7	19631.8	13736.6
60°	11679.4	11891.2	13073.7	14328.5	16051.8	16593.9	16142.8	17795.1	20107.8	20608.7	14859.3
62.5°	8341.2	8690.1	10292.5	12296.2	15172.1	17787.6	18896.6	19149.5	21148.2	21740.1	16318.5
65°	4216.7	4480.9	5824.1	8237.7	12121.7	17007.5	21889.6	22115.2	22956.3	23482.1	18565.1
67.5°	2561.9	2661.6	3317.0	4581.8	7431.5	13248.2	22866.5	27058.3	26455.2	26734.3	21768.8
70°	1887.8	1961.3	2370.0	3042.9	4274.0	7774.2	19868.5	30585.9	30189.7	30158.5	24136.3
72°	1470.4	1523.9	1885.3	2458.5	3125.1	4664.0	14400.8	29283.8	31258.8	31101.8	23919.5
72.5°	1394.3	1441.7	1770.7	2313.9	2953.2	4227.9	12947.9	28405.3	31181.5	31110.5	23639.1
75°	1097.8	1131.4	1310.9	1789.3	2311.5	2398.7	7095.1	22013.0	27661.4	28811.5	21261.6
77.5°	908.4	913.4	1008.1	1302.1	1801.8	1695.9	3485.2	15273.0	19807.5	21072.2	15061.2
80°	740.2	746.4	791.3	913.4	1363.2	1254.8	1654.8	8782.3	11090.0	11103.7	7162.4
82.5°	589.4	590.6	640.5	667.9	979.4	897.2	948.3	4123.2	4845.9	4661.5	2574.4
85°	414.9	406.2	625.5	548.3	640.5	575.7	523.3	1632.3	2003.7	1916.4	806.2
87.5°	138.3	143.3	277.9	355.1	373.8	326.5	233.0	625.5	756.4	750.1	255.4
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: P318260

CATALOG NUMBER: GAN-SA6D-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2	4452.2
2.5°	4474.6	4434.7	4376.2	4311.4	4260.3	4208.0	4169.3	4149.4	4127.0	4108.3	4130.7
5°	4522.0	4447.2	4322.6	4200.5	4110.8	4031.0	3973.7	3943.8	3916.4	3897.7	3900.2
7.5°	4599.2	4478.4	4269.0	4090.8	3966.2	3880.2	3821.7	3801.7	3784.3	3779.3	3785.5
10°	4681.5	4503.3	4198.0	3961.2	3819.2	3748.2	3722.0	3735.7	3748.2	3759.4	3771.8
12.5°	4774.9	4525.7	4094.6	3809.2	3688.4	3660.9	3687.1	3746.9	3790.5	3816.7	3832.9
15°	4897.0	4545.6	3974.9	3657.2	3576.2	3607.4	3695.8	3799.3	3875.3	3923.9	3931.3
17.5°	5009.2	4544.4	3821.7	3503.9	3485.2	3576.2	3709.5	3855.3	3957.5	4026.0	4039.7
20°	5125.1	4510.8	3643.5	3354.4	3393.0	3542.6	3715.8	3891.5	4014.8	4094.6	4113.3
22.5°	5233.5	4452.2	3447.9	3218.6	3315.8	3497.7	3692.1	3870.3	3993.6	4058.4	4078.4
25°	5307.0	4350.0	3249.7	3103.9	3247.2	3442.9	3614.8	3758.1	3850.3	3882.7	3887.7
27.5°	5344.4	4216.7	3062.8	3004.3	3176.2	3353.2	3471.5	3542.6	3568.7	3566.2	3561.3
30°	5349.4	4041.0	2902.1	2923.3	3094.0	3221.1	3277.2	3263.4	3229.8	3172.5	3177.5
32.5°	5333.2	3842.9	2767.5	2846.0	2989.3	3060.3	3062.8	2996.8	2907.1	2816.1	2791.2
35°	5338.1	3648.5	2649.1	2758.8	2862.2	2893.4	2864.7	2767.5	2645.4	2528.3	2503.3
37.5°	5393.0	3479.0	2547.0	2657.9	2721.4	2728.9	2687.8	2585.6	2495.9	2381.2	2371.3
40°	5523.8	3358.1	2449.8	2544.5	2580.6	2584.3	2525.8	2453.5	2461.0	2399.9	2398.7
42.5°	5759.3	3305.8	2363.8	2426.1	2448.5	2456.0	2411.1	2365.0	2429.8	2390.0	2376.2
45°	6063.4	3318.3	2291.5	2310.2	2351.3	2386.2	2358.8	2302.7	2327.6	2154.4	2097.1
47.5°	6414.7	3398.0	2234.2	2210.5	2281.5	2347.6	2305.2	2220.5	2132.0	1960.1	1927.7
50°	6825.9	3521.4	2181.9	2112.1	2205.5	2295.3	2252.9	2132.0	1998.7	1915.2	1904.0
52.5°	7254.6	3672.2	2129.5	2003.7	2109.6	2255.4	2234.2	2112.1	1947.6	1865.4	1850.4
55°	7740.6	3824.2	2063.5	1877.8	2006.2	2236.7	2225.5	2039.8	1909.0	1862.9	1851.7
57.5°	8344.9	3997.4	1976.3	1747.0	1909.0	2169.4	2134.5	1996.2	1869.1	1834.2	1830.5
60°	9132.4	4252.8	1850.4	1607.4	1790.6	2066.0	2058.5	1932.6	1805.5	1780.6	1775.6
62.5°	10313.7	4675.2	1677.2	1467.9	1658.5	1890.3	1958.8	1846.7	1738.3	1737.0	1739.5
65°	12145.4	5310.7	1489.0	1345.8	1525.2	1742.0	1842.9	1758.2	1669.7	1694.6	1698.4
67.5°	14268.7	5837.8	1304.6	1226.1	1389.4	1601.2	1738.3	1669.7	1578.8	1643.6	1644.8
70°	14975.2	5366.8	1142.6	1107.8	1248.6	1465.4	1624.9	1572.5	1480.3	1545.1	1538.9
72°	13936.0	4332.6	1038.0	1018.0	1142.6	1353.2	1523.9	1481.6	1390.6	1434.2	1418.0
72.5°	13608.3	4130.7	1011.8	995.6	1114.0	1324.6	1497.8	1459.1	1368.2	1405.6	1390.6
75°	12139.2	3587.4	869.8	873.5	971.9	1185.0	1350.7	1338.3	1244.8	1248.6	1243.6
77.5°	8804.7	2630.4	732.7	757.6	827.4	1041.7	1202.5	1195.0	1092.8	1074.1	1070.4
80°	4085.8	1342.0	596.9	608.1	680.4	871.0	1025.5	1015.5	933.3	909.6	895.9
82.5°	1399.3	638.0	448.6	456.1	527.1	701.5	889.7	883.5	814.9	768.8	740.2
85°	499.7	317.7	314.0	306.5	376.3	552.0	775.1	741.4	640.5	545.8	543.3
87.5°	162.0	135.8	162.0	160.7	219.3	373.8	563.2	479.7	464.8	386.3	378.8
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)