

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: P318239

Luminaire Tested: **GAN-SA5B-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318239
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-SA5B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22273 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 210
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

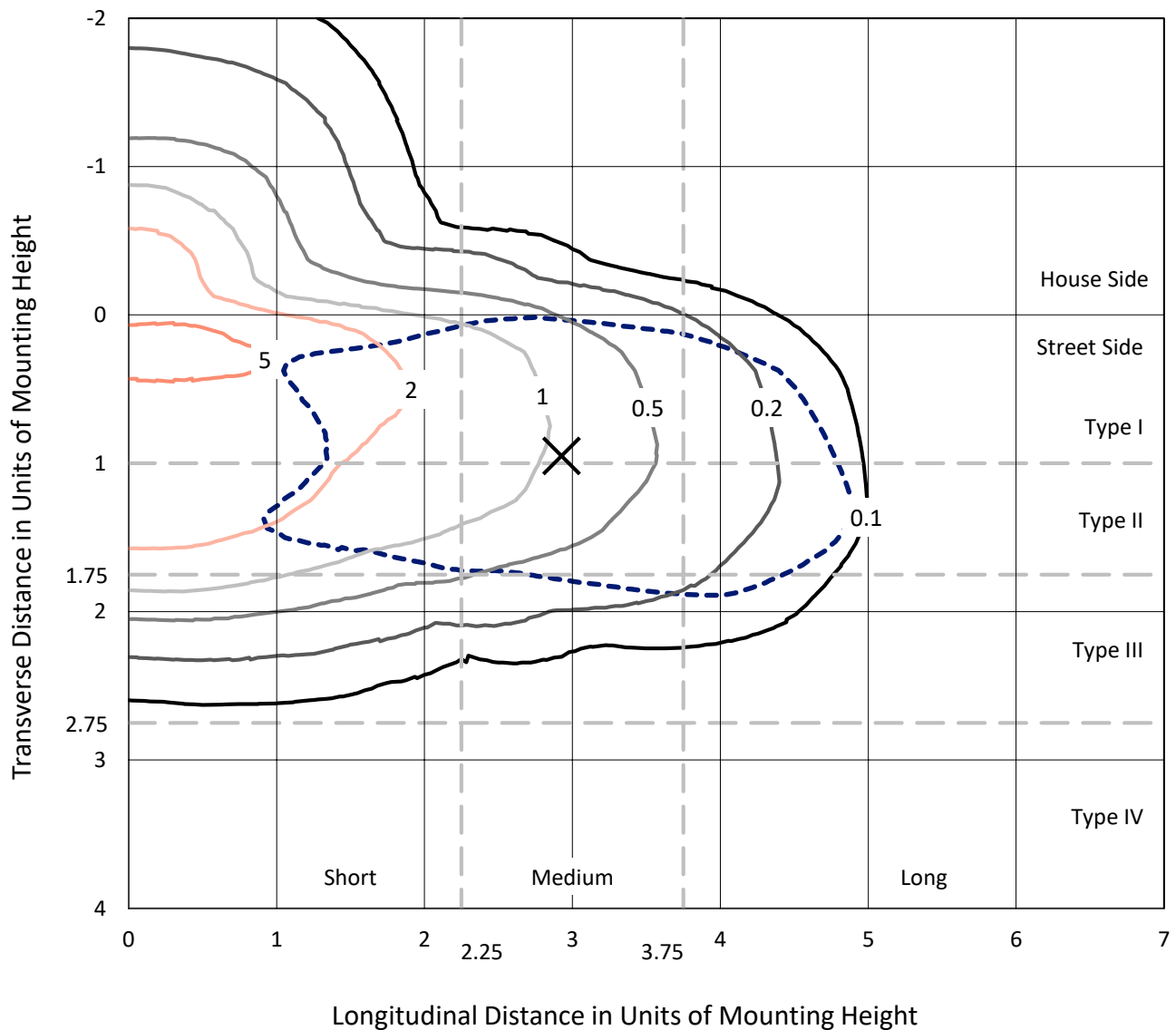


REPORT NUMBER: P318239

CATALOG NUMBER: GAN-SA5B-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

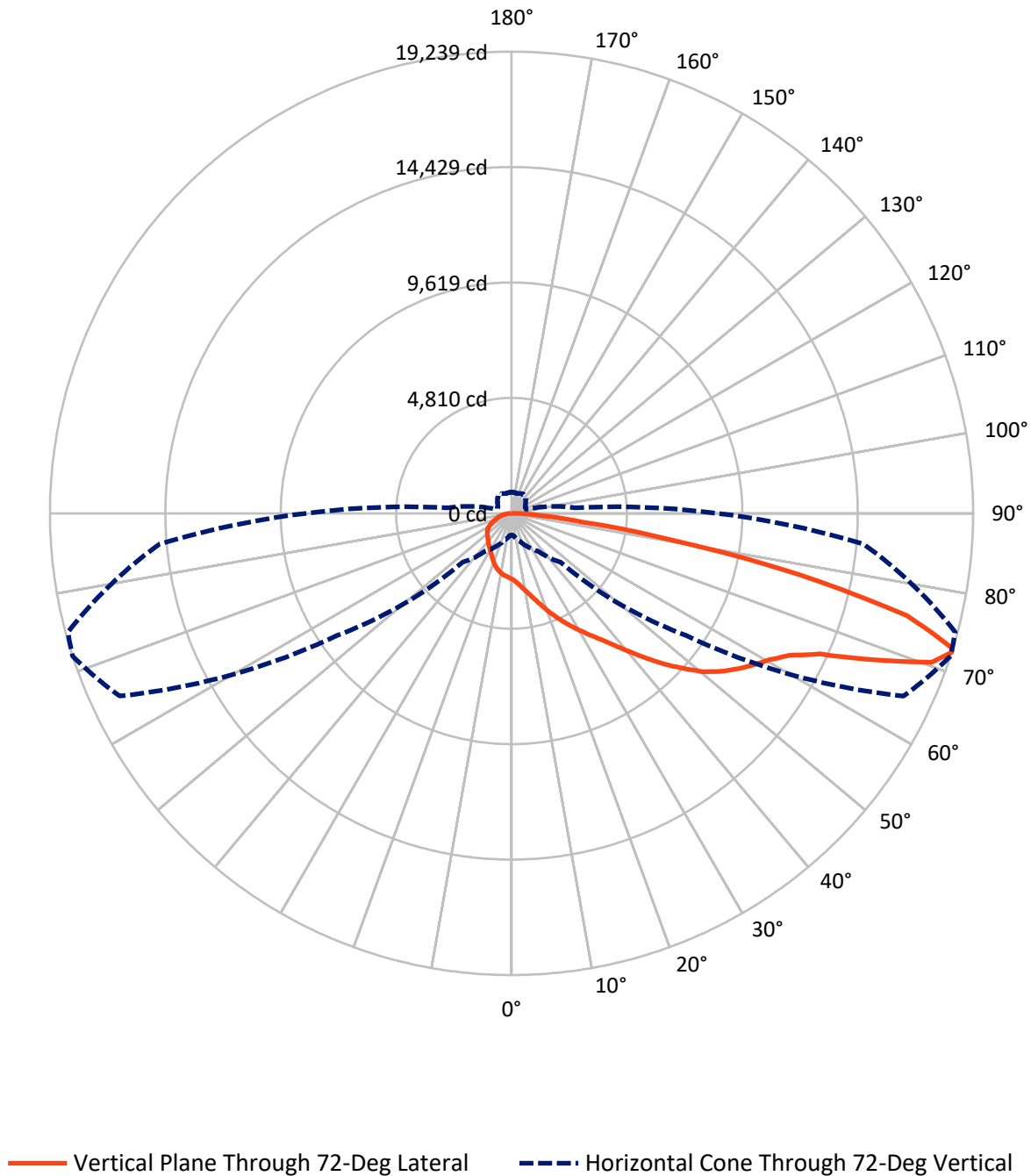
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P318239
CATALOG NUMBER: GAN-SA5B-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318239

CATALOG NUMBER: GAN-SA5B-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4131.8	0.0	4131.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18141.2	0.0	18141.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	22273.0	0.0	22273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.6	1.2
10°-20°	887.3	4.0
20°-30°	1554.8	7.0
30°-40°	2305.3	10.4
40°-50°	3371.7	15.1
50°-60°	4639.4	20.8
60°-70°	5165.0	23.2
70°-80°	3499.8	15.7
80°-90°	575.2	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°	22273.0	100.0
0°-180°	22273.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318239

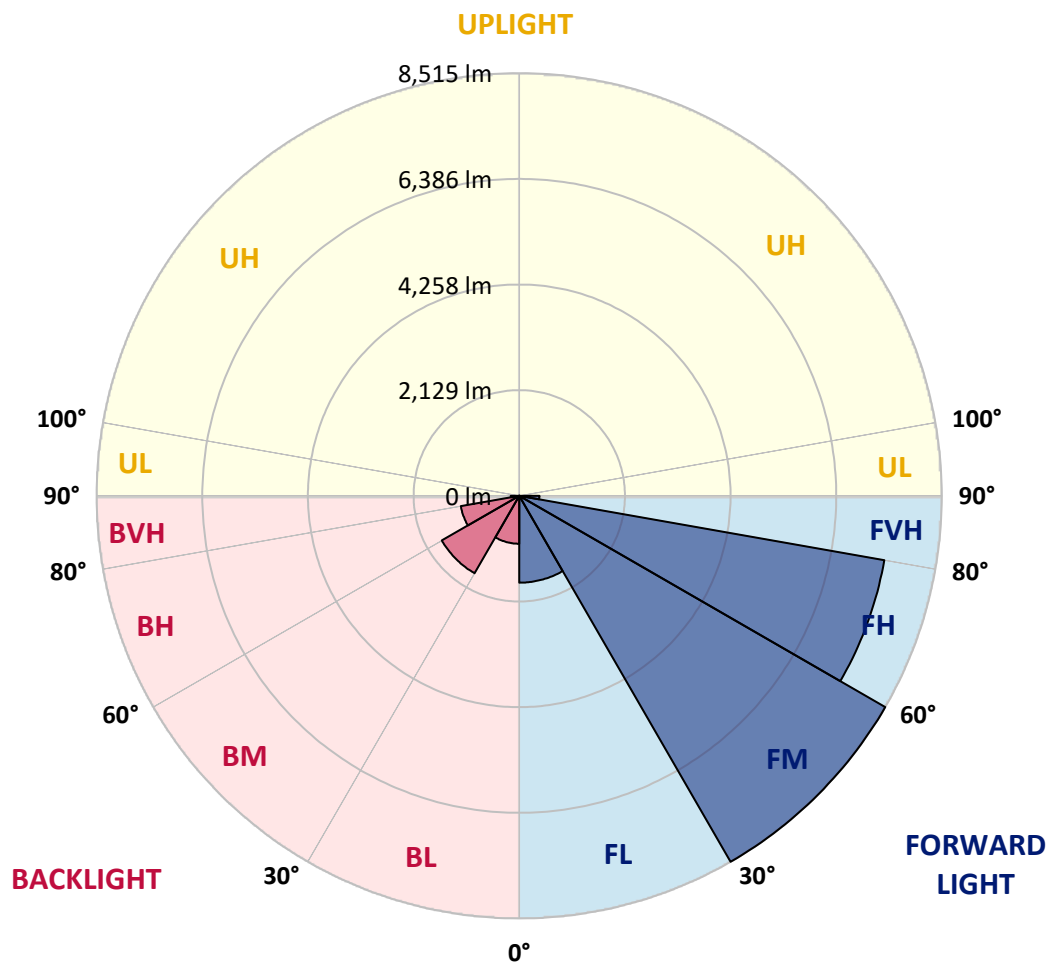
CATALOG NUMBER: GAN-SA5B-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1750.8	7.9			
FM	(30°-60°)	8515.2	38.2			
FH	(60°-80°)	7469.4	33.5			G3/7500
FVH	(80°-90°)	405.8	1.8			G3/500
BL	(0°-30°)	965.9	4.3	B2/1000		
BM	(30°-60°)	1801.1	8.1	B2/2500		
BH	(60°-80°)	1195.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	169.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





REPORT NUMBER: P318239

CATALOG NUMBER: GAN-SA5B-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2
2.5°	3027.0	3022.4	3006.3	3006.3	2975.6	2949.5	2900.4	2867.5	2828.4	2814.6	2768.5
5°	3319.9	3321.5	3301.5	3287.7	3242.5	3187.3	3103.7	3027.8	2951.8	2921.2	2826.8
7.5°	3566.1	3563.1	3557.7	3546.2	3504.0	3447.2	3334.5	3221.8	3109.8	3063.8	2901.2
10°	3724.1	3731.0	3735.6	3741.0	3723.3	3682.7	3576.1	3438.8	3292.3	3229.4	2990.2
12.5°	3803.9	3816.1	3837.6	3874.4	3903.6	3899.0	3821.5	3675.8	3501.7	3422.7	3101.4
15°	3850.6	3866.7	3900.5	3966.4	4048.5	4095.3	4074.6	3942.7	3748.6	3651.2	3237.1
17.5°	3879.8	3892.8	3945.0	4033.2	4155.1	4279.3	4333.8	4223.4	4027.8	3916.6	3392.8
20°	3899.7	3909.7	3974.9	4078.4	4236.4	4434.3	4586.1	4558.5	4335.3	4191.1	3555.4
22.5°	3944.2	3952.6	4014.8	4119.1	4293.9	4549.3	4829.2	4870.6	4659.7	4496.4	3729.5
25°	4068.4	4068.4	4120.6	4193.4	4357.6	4649.0	5034.7	5218.0	4991.0	4800.8	3890.5
27.5°	4305.4	4303.1	4322.3	4347.6	4471.8	4750.2	5218.0	5524.8	5334.6	5126.8	4047.0
30°	4586.1	4601.4	4603.7	4591.5	4649.8	4876.8	5387.5	5848.4	5680.5	5456.5	4207.3
32.5°	4947.3	4957.3	4945.8	4905.1	4896.7	5056.2	5553.9	6187.4	6054.7	5800.9	4353.7
35°	5405.9	5386.8	5350.7	5267.9	5188.9	5296.3	5744.1	6526.4	6475.0	6217.3	4555.4
37.5°	5897.5	5898.3	5853.8	5665.9	5557.0	5603.0	6006.4	6910.6	6983.5	6712.7	4813.9
40°	6291.7	6312.4	6340.0	6093.1	5952.0	6015.6	6340.0	7356.2	7584.7	7300.2	5150.5
42.5°	6567.0	6590.8	6669.0	6514.1	6367.6	6485.7	6732.7	7831.7	8259.6	7978.1	5544.7
45°	6858.5	6871.5	6926.7	6860.0	6766.4	7032.5	7175.2	8324.0	8973.6	8700.6	5985.7
47.5°	7165.2	7179.0	7235.8	7191.3	7142.2	7543.3	7636.9	8788.0	9657.7	9494.3	6456.6
50°	7544.1	7553.3	7607.0	7526.4	7541.8	7928.3	8049.5	9213.6	10374.7	10207.5	6929.0
52.5°	8061.0	8063.3	8137.7	8064.8	7992.7	8210.5	8404.5	9614.7	10936.9	10857.9	7401.4
55°	8465.9	8490.4	8734.3	8719.0	8677.6	8466.7	8701.3	9996.6	11438.4	11476.0	7903.0
57.5°	8207.4	8303.3	8797.2	9145.4	9484.3	9104.0	9102.4	10426.9	11904.7	12082.6	8454.4
60°	7188.2	7318.6	8046.4	8818.7	9879.3	10212.9	9935.3	10952.2	12375.6	12683.9	9145.4
62.5°	5133.7	5348.4	6334.7	7567.8	9337.9	10947.6	11630.2	11785.8	13016.0	13380.2	10043.4
65°	2595.2	2757.8	3584.5	5070.0	7460.5	10467.5	13472.3	13611.1	14128.7	14452.4	11426.2
67.5°	1576.8	1638.1	2041.5	2819.9	4573.8	8153.8	14073.5	16653.4	16282.2	16454.0	13397.9
70°	1161.9	1207.1	1458.7	1872.8	2630.5	4784.7	12228.3	18824.5	18580.6	18561.5	14855.0
72°	905.0	937.9	1160.3	1513.1	1923.4	2870.5	8863.1	18023.1	19238.6	19142.0	14721.6
72.5°	858.2	887.3	1089.8	1424.1	1817.6	2602.1	7968.9	17482.4	19191.1	19147.4	14549.0
75°	675.6	696.4	806.8	1101.3	1422.6	1476.3	4366.8	13548.2	17024.6	17732.4	13085.7
77.5°	559.1	562.1	620.4	801.4	1108.9	1043.8	2145.0	9400.0	12190.8	12969.2	9269.6
80°	455.5	459.4	487.0	562.1	839.0	772.3	1018.5	5405.2	6825.5	6833.9	4408.2
82.5°	362.7	363.5	394.2	411.1	602.8	552.2	583.6	2537.7	2982.5	2869.0	1584.4
85°	255.4	250.0	385.0	337.4	394.2	354.3	322.1	1004.6	1233.2	1179.5	496.2
87.5°	85.1	88.2	171.0	218.6	230.1	200.9	143.4	385.0	465.5	461.7	157.2
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: P318239

CATALOG NUMBER: GAN-SA5B-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2	2740.2
2.5°	2754.0	2729.4	2693.4	2653.5	2622.1	2589.8	2566.1	2553.8	2540.0	2528.5	2542.3
5°	2783.1	2737.1	2660.4	2585.2	2530.0	2480.9	2445.7	2427.3	2410.4	2398.9	2400.4
7.5°	2830.7	2756.3	2627.4	2517.8	2441.1	2388.1	2352.1	2339.8	2329.1	2326.0	2329.9
10°	2881.3	2771.6	2583.7	2438.0	2350.6	2306.9	2290.8	2299.2	2306.9	2313.8	2321.4
12.5°	2938.8	2785.4	2520.1	2344.4	2270.0	2253.2	2269.3	2306.1	2332.9	2349.0	2359.0
15°	3013.9	2797.7	2446.4	2250.9	2201.0	2220.2	2274.6	2338.3	2385.1	2415.0	2419.6
17.5°	3083.0	2796.9	2352.1	2156.5	2145.0	2201.0	2283.1	2372.8	2435.7	2477.9	2486.3
20°	3154.3	2776.2	2242.4	2064.5	2088.3	2180.3	2286.9	2395.1	2471.0	2520.1	2531.6
22.5°	3221.0	2740.2	2122.0	1980.9	2040.7	2152.7	2272.3	2382.0	2457.9	2497.8	2510.1
25°	3266.3	2677.3	2000.1	1910.4	1998.6	2119.0	2224.8	2313.0	2369.7	2389.7	2392.8
27.5°	3289.3	2595.2	1885.1	1849.0	1954.8	2063.7	2136.6	2180.3	2196.4	2194.9	2191.8
30°	3292.3	2487.1	1786.1	1799.2	1904.2	1982.5	2017.0	2008.5	1987.8	1952.5	1955.6
32.5°	3282.4	2365.1	1703.3	1751.6	1839.8	1883.5	1885.1	1844.4	1789.2	1733.2	1717.9
35°	3285.4	2245.5	1630.4	1697.9	1761.6	1780.8	1763.1	1703.3	1628.1	1556.1	1540.7
37.5°	3319.2	2141.2	1567.6	1635.8	1674.9	1679.5	1654.2	1591.3	1536.1	1465.6	1459.4
40°	3399.7	2066.8	1507.7	1566.0	1588.3	1590.6	1554.5	1510.0	1514.6	1477.1	1476.3
42.5°	3544.6	2034.6	1454.8	1493.2	1507.0	1511.6	1484.0	1455.6	1495.5	1470.9	1462.5
45°	3731.8	2042.3	1410.3	1421.8	1447.2	1468.6	1451.8	1417.2	1432.6	1326.0	1290.7
47.5°	3948.0	2091.4	1375.1	1360.5	1404.2	1444.9	1418.8	1366.6	1312.2	1206.3	1186.4
50°	4201.1	2167.3	1342.9	1299.9	1357.4	1412.6	1386.6	1312.2	1230.1	1178.7	1171.8
52.5°	4464.9	2260.1	1310.6	1233.2	1298.4	1388.1	1375.1	1299.9	1198.7	1148.1	1138.9
55°	4764.0	2353.6	1270.0	1155.7	1234.7	1376.6	1369.7	1255.4	1174.9	1146.5	1139.6
57.5°	5136.0	2460.2	1216.3	1075.2	1174.9	1335.2	1313.7	1228.6	1150.4	1128.9	1126.6
60°	5620.7	2617.5	1138.9	989.3	1102.0	1271.5	1266.9	1189.5	1111.2	1095.9	1092.8
62.5°	6347.7	2877.4	1032.3	903.4	1020.8	1163.4	1205.6	1136.6	1069.8	1069.1	1070.6
65°	7475.0	3268.6	916.5	828.3	938.7	1072.1	1134.3	1082.1	1027.7	1043.0	1045.3
67.5°	8781.9	3593.0	803.0	754.6	855.1	985.5	1069.8	1027.7	971.7	1011.6	1012.3
70°	9216.7	3303.1	703.3	681.8	768.4	901.9	1000.0	967.8	911.1	951.0	947.1
72°	8577.1	2666.5	638.8	626.6	703.3	832.9	937.9	911.9	855.9	882.7	872.7
72.5°	8375.4	2542.3	622.7	612.8	685.6	815.2	921.8	898.0	842.1	865.1	855.9
75°	7471.2	2207.9	535.3	537.6	598.2	729.3	831.3	823.7	766.1	768.4	765.4
77.5°	5419.0	1618.9	450.9	466.3	509.2	641.1	740.1	735.5	672.6	661.1	658.8
80°	2514.7	826.0	367.3	374.3	418.7	536.1	631.2	625.0	574.4	559.8	551.4
82.5°	861.2	392.7	276.1	280.7	324.4	431.8	547.6	543.7	501.6	473.2	455.5
85°	307.5	195.6	193.3	188.7	231.6	339.7	477.0	456.3	394.2	335.9	334.4
87.5°	99.7	83.6	99.7	98.9	135.0	230.1	346.6	295.3	286.1	237.7	233.1
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)