

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: P318231

Luminaire Tested: **GAN-SA7A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318231
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-SA7A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25704 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

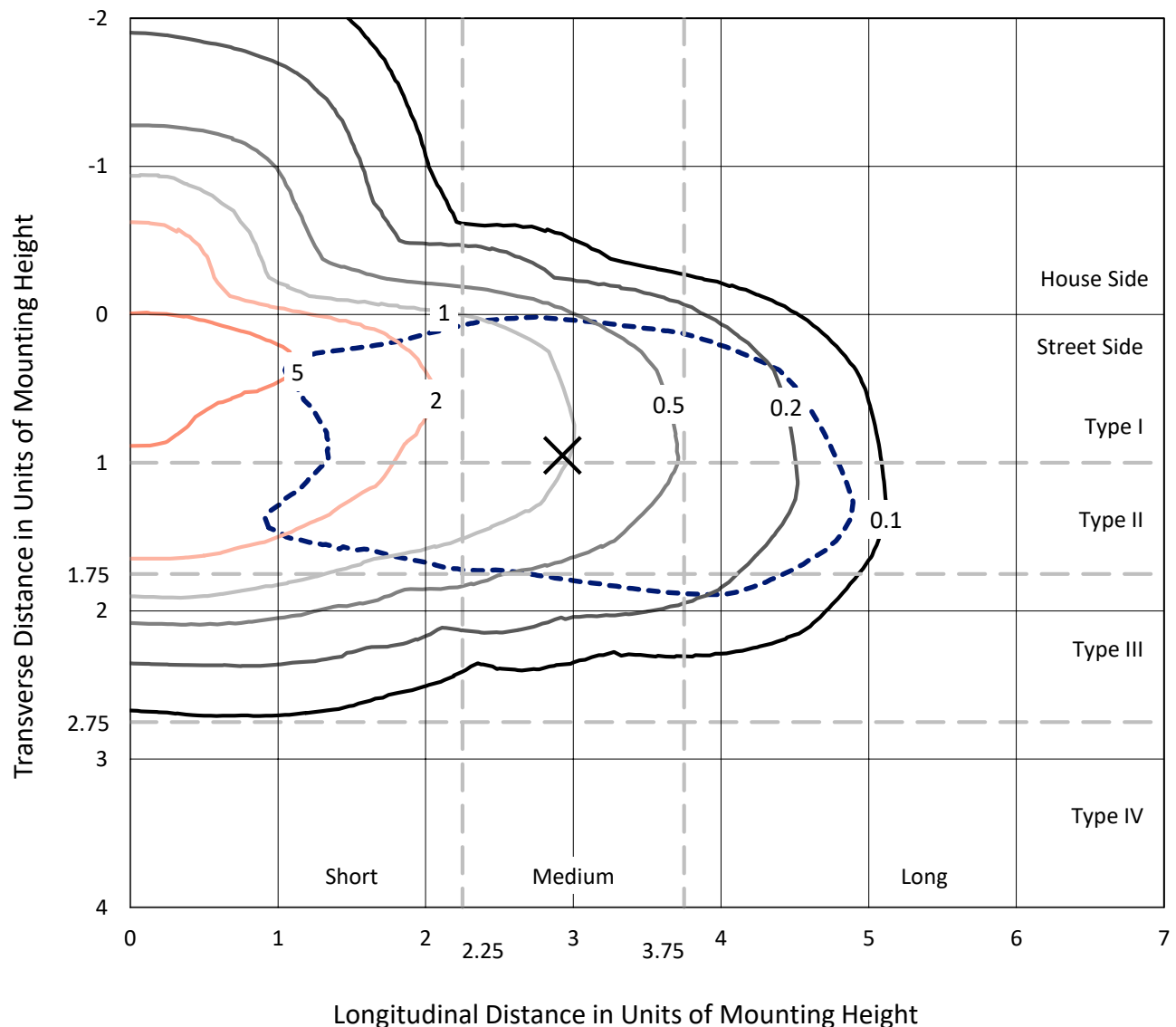
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

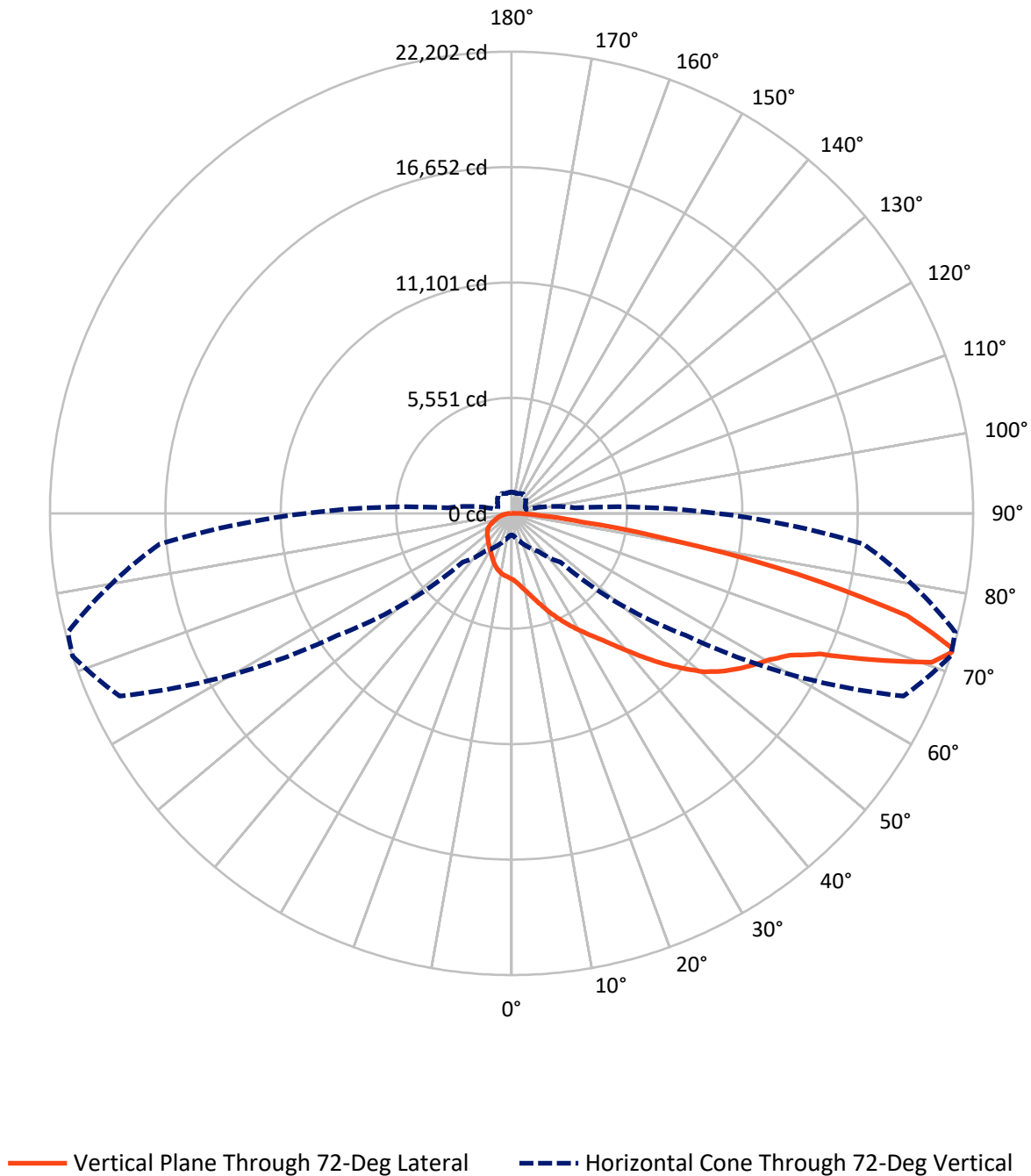
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4768.3	0.0	4768.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20935.7	0.0	20935.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	25704.0	0.0	25704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.9	1.2
10°-20°	1024.0	4.0
20°-30°	1794.3	7.0
30°-40°	2660.4	10.4
40°-50°	3891.0	15.1
50°-60°	5354.0	20.8
60°-70°	5960.6	23.2
70°-80°	4038.9	15.7
80°-90°	663.8	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°	25704.0	100.0
0°-180°	25704.0	100.0

Coefficient of Utilization



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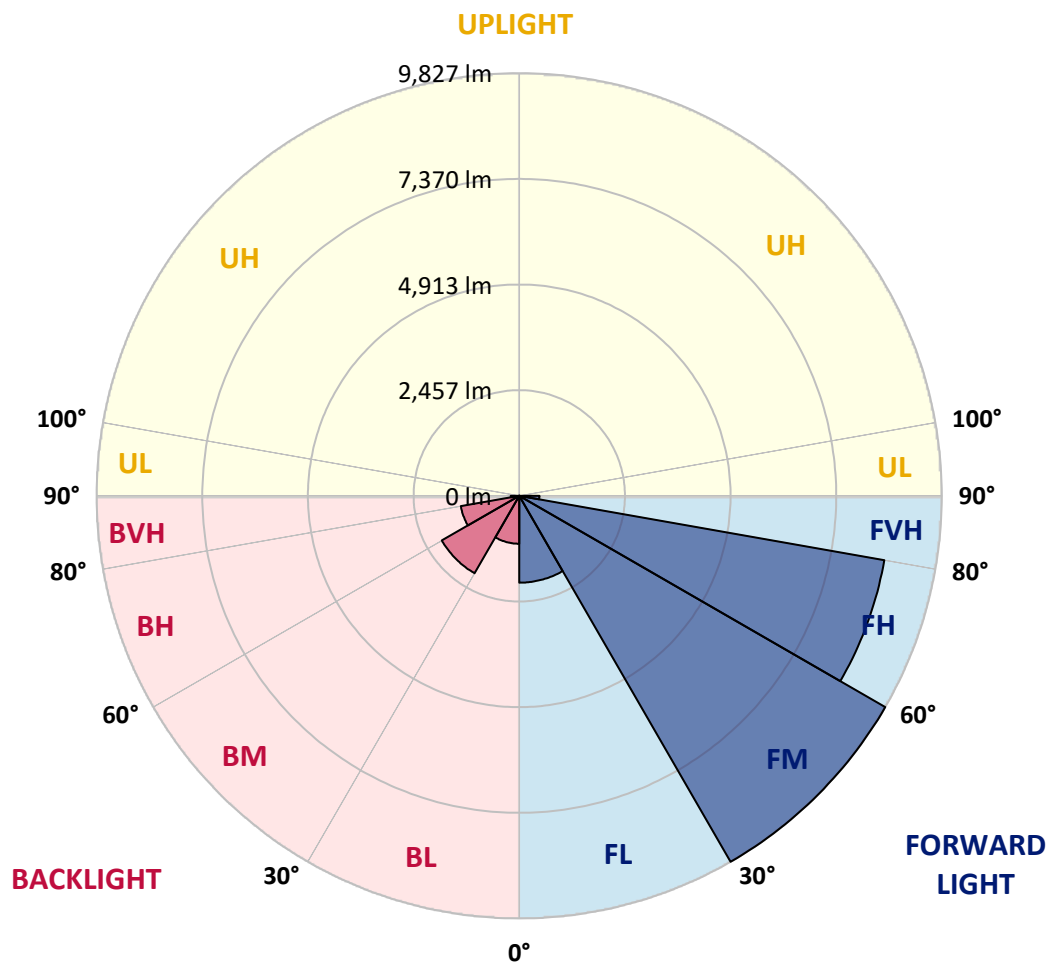
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2020.5	7.9			
FM	(30°-60°)	9827.0	38.2			
FH	(60°-80°)	8620.0	33.5			G4/12000
FVH	(80°-90°)	468.2	1.8			G3/500
BL	(0°-30°)	1114.6	4.3	B3/2500		
BM	(30°-60°)	2078.5	8.1	B2/2500		
BH	(60°-80°)	1379.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	195.6	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3
2.5°	3493.3	3488.0	3469.4	3469.4	3434.0	3403.9	3347.2	3309.2	3264.0	3248.1	3195.0
5°	3831.4	3833.1	3810.1	3794.2	3742.0	3678.2	3581.8	3494.2	3406.5	3371.1	3262.3
7.5°	4115.5	4111.9	4105.7	4092.4	4043.8	3978.3	3848.2	3718.1	3588.9	3535.8	3348.1
10°	4297.8	4305.7	4311.0	4317.2	4296.9	4250.0	4127.0	3968.5	3799.5	3726.9	3450.8
12.5°	4389.8	4404.0	4428.8	4471.2	4504.9	4499.6	4410.2	4242.0	4041.1	3950.0	3579.1
15°	4443.8	4462.4	4501.3	4577.4	4672.1	4726.1	4702.2	4550.0	4326.1	4213.7	3735.8
17.5°	4477.4	4492.5	4552.7	4654.4	4795.2	4938.5	5001.4	4873.9	4648.3	4519.9	3915.4
20°	4500.4	4512.0	4587.2	4706.7	4889.0	5117.3	5292.6	5260.7	5003.2	4836.8	4103.1
22.5°	4551.8	4561.5	4633.2	4753.6	4955.4	5250.1	5573.1	5620.9	5377.5	5189.0	4304.0
25°	4695.2	4695.2	4755.3	4839.4	5028.8	5365.1	5810.3	6021.8	5759.9	5540.4	4489.8
27.5°	4968.6	4966.0	4988.1	5017.3	5160.7	5482.0	6021.8	6375.9	6156.4	5916.5	4670.4
30°	5292.6	5310.3	5312.9	5298.8	5366.0	5628.0	6217.4	6749.3	6555.5	6297.1	4855.4
32.5°	5709.4	5720.9	5707.6	5660.7	5651.0	5835.1	6409.5	7140.5	6987.4	6694.5	5024.4
35°	6238.7	6216.5	6175.0	6079.4	5988.2	6112.1	6629.0	7531.7	7472.4	7175.1	5257.2
37.5°	6806.0	6806.9	6755.5	6538.7	6413.0	6466.1	6931.7	7975.1	8059.2	7746.8	5555.4
40°	7260.9	7284.8	7316.7	7031.7	6868.8	6942.3	7316.7	8489.3	8753.1	8424.7	5944.0
42.5°	7578.6	7606.1	7696.3	7517.6	7348.5	7484.8	7769.8	9038.1	9531.9	9207.1	6398.9
45°	7914.9	7930.0	7993.7	7916.7	7808.7	8115.9	8280.5	9606.3	10355.9	10040.8	6907.8
47.5°	8269.0	8284.9	8350.4	8299.1	8242.4	8705.3	8813.3	10141.7	11145.4	10956.8	7451.2
50°	8706.2	8716.8	8778.8	8685.8	8703.5	9149.6	9289.4	10632.9	11972.9	11779.9	7996.4
52.5°	9302.7	9305.4	9391.2	9307.1	9223.9	9475.3	9699.2	11095.8	12621.6	12530.5	8541.6
55°	9770.0	9798.3	10079.8	10062.1	10014.3	9770.9	10041.7	11536.5	13200.4	13243.8	9120.4
57.5°	9471.7	9582.4	10152.3	10554.2	10945.3	10506.4	10504.6	12033.1	13738.5	13943.9	9756.7
60°	8295.5	8446.0	9285.9	10177.1	11401.1	11786.1	11465.7	12639.3	14282.0	14637.7	10554.2
62.5°	5924.5	6172.3	7310.5	8733.6	10776.3	12634.0	13421.7	13601.4	15021.0	15441.4	11590.5
65°	2995.0	3182.6	4136.7	5851.0	8609.7	12080.0	15547.6	15707.8	16305.2	16678.7	13186.3
67.5°	1819.7	1890.5	2356.0	3254.3	5278.4	9409.8	16241.4	19218.7	18790.4	18988.6	15461.7
70°	1340.8	1393.1	1683.4	2161.3	3035.7	5521.8	14112.0	21724.3	21442.8	21420.7	17143.3
72°	1044.4	1082.4	1339.1	1746.2	2219.7	3312.7	10228.5	20799.4	22202.2	22090.7	16989.3
72.5°	990.4	1024.0	1257.6	1643.5	2097.6	3003.0	9196.5	20175.5	22147.3	22096.9	16790.2
75°	779.7	803.6	931.1	1270.9	1641.8	1703.7	5039.4	15635.2	19647.1	20464.0	15101.5
77.5°	645.2	648.7	716.0	924.9	1279.8	1204.5	2475.5	10848.0	14068.7	14967.0	10697.5
80°	525.7	530.1	562.0	648.7	968.2	891.2	1175.3	6237.8	7876.9	7886.6	5087.2
82.5°	418.6	419.5	454.9	474.4	695.6	637.2	673.5	2928.6	3441.9	3310.9	1828.5
85°	294.7	288.5	444.3	389.4	454.9	408.9	371.7	1159.4	1423.2	1361.2	572.6
87.5°	98.2	101.8	197.4	252.2	265.5	231.9	165.5	444.3	537.2	532.8	181.4
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°	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3	3162.3
2.5°	3178.2	3149.9	3108.3	3062.3	3026.0	2988.8	2961.4	2947.2	2931.3	2918.0	2933.9
5°	3211.8	3158.7	3070.2	2983.5	2919.8	2863.1	2822.4	2801.2	2781.7	2768.4	2770.2
7.5°	3266.7	3180.8	3032.2	2905.6	2817.1	2756.0	2714.4	2700.3	2687.9	2684.3	2688.8
10°	3325.1	3198.5	2981.7	2813.6	2712.7	2662.2	2643.6	2653.4	2662.2	2670.2	2679.0
12.5°	3391.5	3214.5	2908.3	2705.6	2619.7	2600.3	2618.8	2661.3	2692.3	2710.9	2722.4
15°	3478.2	3228.6	2823.3	2597.6	2540.1	2562.2	2625.0	2698.5	2752.5	2787.0	2792.3
17.5°	3557.9	3227.8	2714.4	2488.7	2475.5	2540.1	2634.8	2738.3	2810.9	2859.6	2869.3
20°	3640.2	3203.9	2587.9	2382.5	2410.0	2516.2	2639.2	2764.0	2851.6	2908.3	2921.5
22.5°	3717.2	3162.3	2448.9	2286.1	2355.1	2484.3	2622.4	2748.9	2836.6	2882.6	2896.7
25°	3769.4	3089.7	2308.2	2204.6	2306.4	2445.4	2567.5	2669.3	2734.8	2757.8	2761.3
27.5°	3796.0	2995.0	2175.4	2133.8	2256.0	2381.7	2465.7	2516.2	2534.8	2533.0	2529.5
30°	3799.5	2870.2	2061.3	2076.3	2197.6	2287.8	2327.7	2317.9	2294.0	2253.3	2256.9
32.5°	3788.0	2729.5	1965.7	2021.4	2123.2	2173.7	2175.4	2128.5	2064.8	2000.2	1982.5
35°	3791.5	2591.4	1881.6	1959.5	2032.9	2055.1	2034.7	1965.7	1878.9	1795.8	1778.1
37.5°	3830.5	2471.0	1809.0	1887.8	1932.9	1938.2	1909.0	1836.5	1772.7	1691.3	1684.2
40°	3923.4	2385.2	1740.0	1807.3	1832.9	1835.6	1794.0	1742.7	1748.0	1704.6	1703.7
42.5°	4090.7	2348.0	1678.9	1723.2	1739.1	1744.4	1712.6	1679.8	1725.8	1697.5	1687.8
45°	4306.6	2356.9	1627.6	1640.9	1670.1	1694.9	1675.4	1635.6	1653.3	1530.2	1489.5
47.5°	4556.2	2413.5	1586.9	1570.1	1620.5	1667.4	1637.3	1577.1	1514.3	1392.2	1369.2
50°	4848.3	2501.1	1549.7	1500.1	1566.5	1630.3	1600.2	1514.3	1419.6	1360.3	1352.3
52.5°	5152.7	2608.2	1512.5	1423.2	1498.4	1601.9	1586.9	1500.1	1383.3	1324.9	1314.3
55°	5497.9	2716.2	1465.6	1333.8	1424.9	1588.7	1580.7	1448.8	1355.9	1323.1	1315.2
57.5°	5927.1	2839.2	1403.7	1240.8	1355.9	1540.9	1516.1	1417.8	1327.6	1302.8	1300.1
60°	6486.5	3020.7	1314.3	1141.7	1271.8	1467.4	1462.1	1372.7	1282.4	1264.7	1261.2
62.5°	7325.5	3320.7	1191.3	1042.6	1178.0	1342.6	1391.3	1311.6	1234.6	1233.8	1235.5
65°	8626.5	3772.1	1057.6	955.8	1083.3	1237.3	1309.0	1248.8	1186.0	1203.7	1206.3
67.5°	10134.6	4146.4	926.6	870.9	986.8	1137.3	1234.6	1186.0	1121.4	1167.4	1168.3
70°	10636.5	3811.9	811.6	786.8	886.8	1040.8	1154.1	1116.9	1051.4	1097.5	1093.0
72°	9898.3	3077.3	737.2	723.1	811.6	961.2	1082.4	1052.3	987.7	1018.7	1007.2
72.5°	9665.6	2933.9	718.7	707.2	791.2	940.8	1063.8	1036.4	971.8	998.3	987.7
75°	8622.1	2548.0	617.8	620.4	690.3	841.7	959.4	950.5	884.2	886.8	883.3
77.5°	6253.7	1868.3	520.4	538.1	587.7	739.9	854.1	848.8	776.2	762.9	760.3
80°	2902.1	953.2	423.9	431.9	483.2	618.6	728.4	721.3	662.9	646.1	636.3
82.5°	993.9	453.1	318.6	323.9	374.4	498.3	631.9	627.5	578.8	546.1	525.7
85°	354.9	225.7	223.0	217.7	267.3	392.1	550.5	526.6	454.9	387.6	385.9
87.5°	115.1	96.5	115.1	114.2	155.8	265.5	400.0	340.7	330.1	274.4	269.1
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)