

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: P317931

Luminaire Tested: **GAN-SA7C-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317931
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-SA7C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40648 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

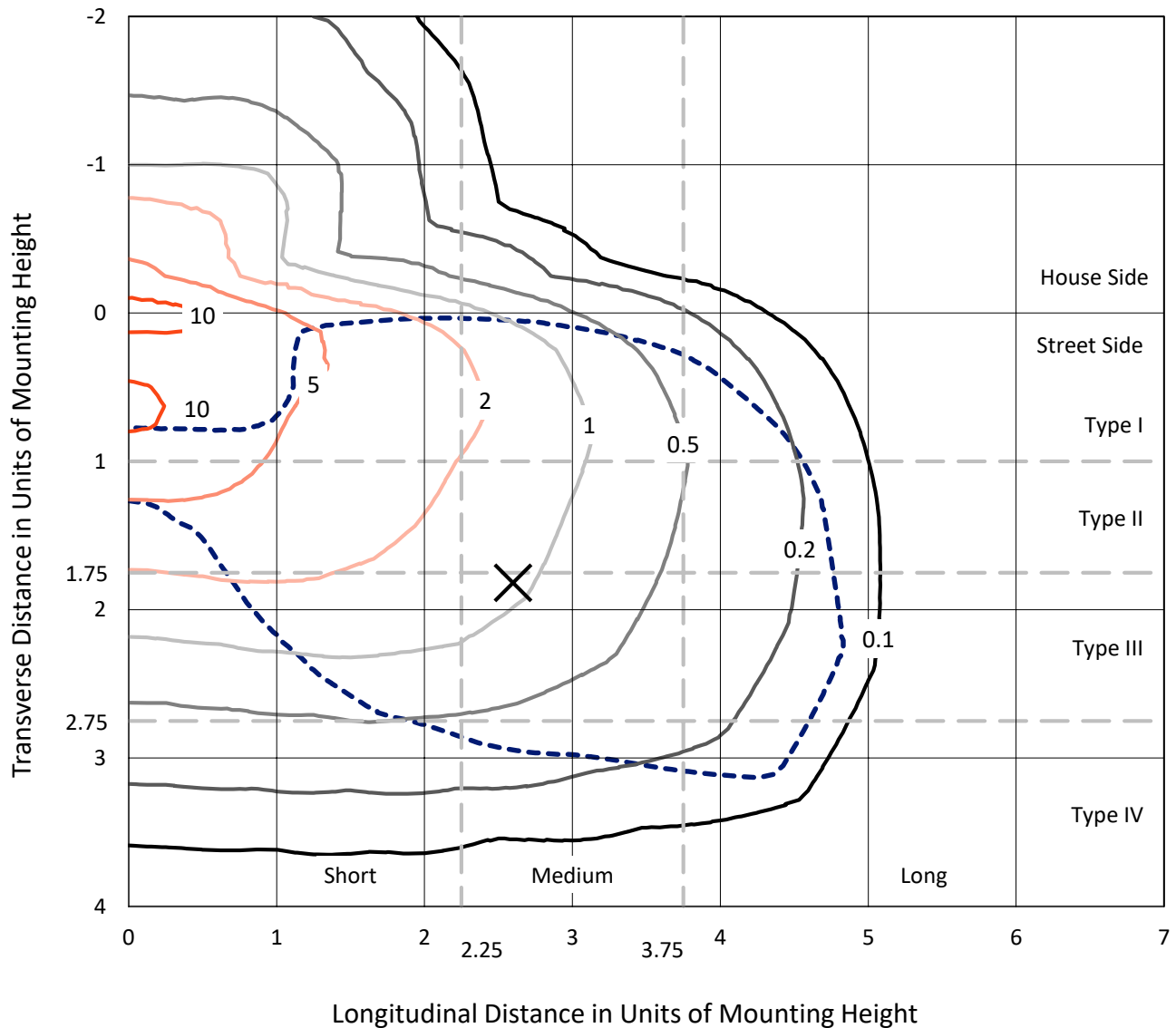
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

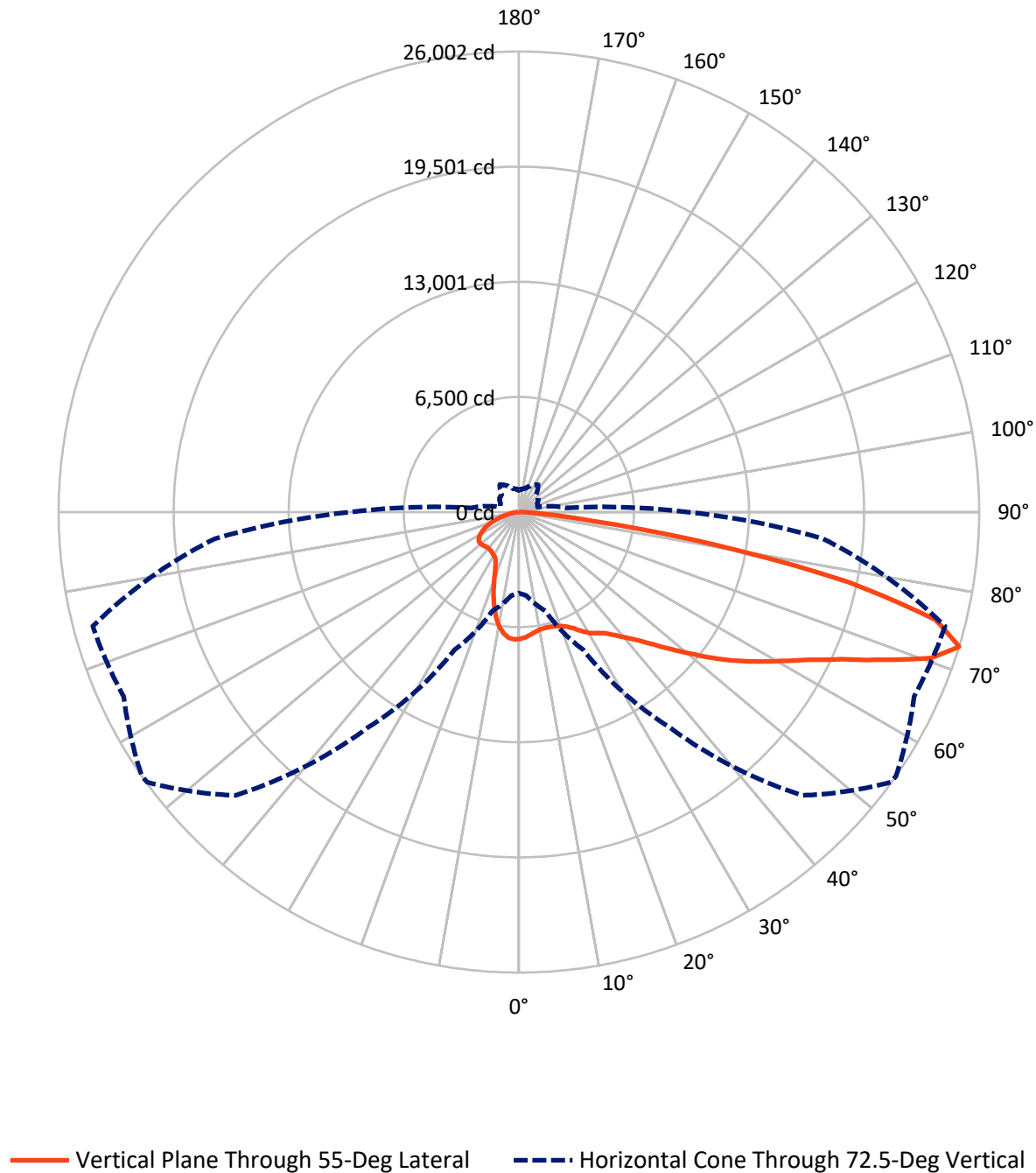
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	7555.1	0.0	7555.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	33092.9	0.0	33092.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	40648.0	0.0	40648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.7	1.6
10°-20°	1727.2	4.2
20°-30°	2847.7	7.0
30°-40°	4212.5	10.4
40°-50°	5879.8	14.5
50°-60°	7655.7	18.8
60°-70°	9408.6	23.1
70°-80°	7375.2	18.1
80°-90°	892.5	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°	40648.0	100.0
0°-180°	40648.0	100.0

Coefficient of Utilization



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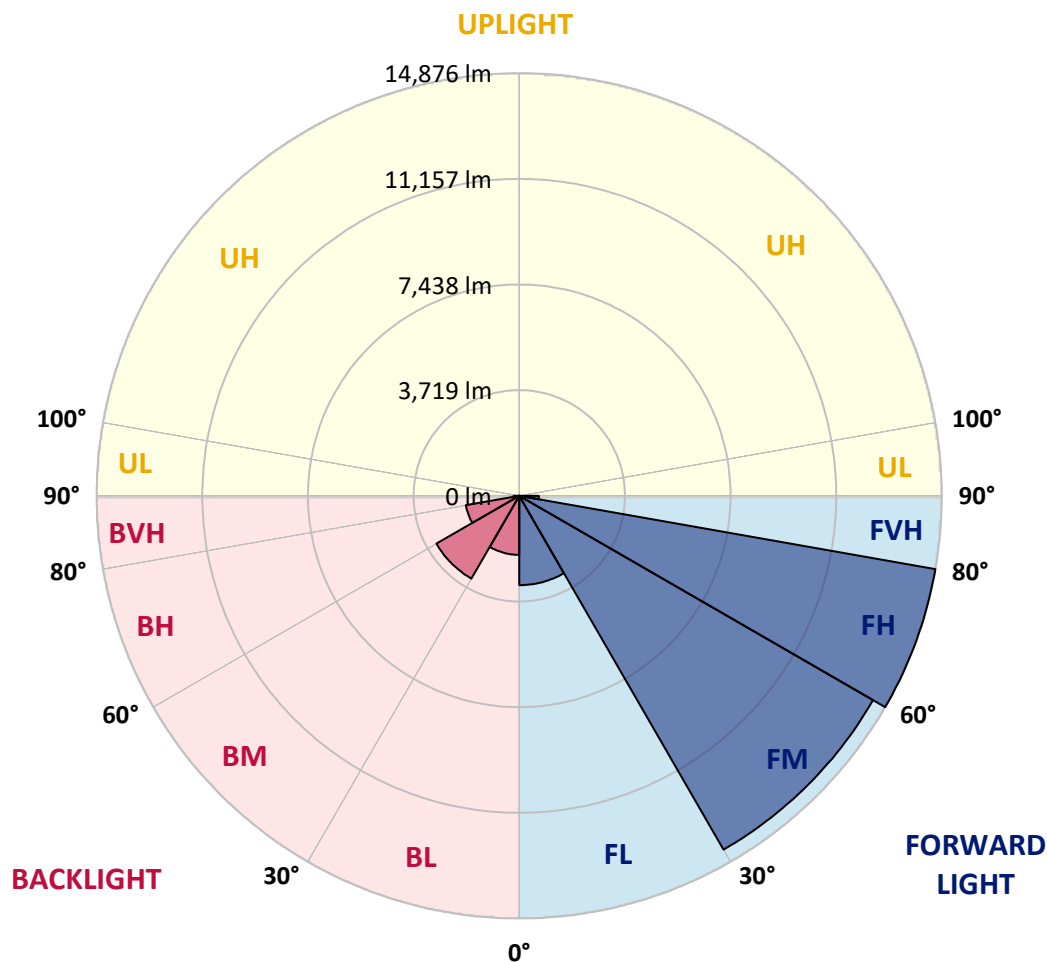
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3145.0	7.7			
FM	(30°-60°)	14382.1	35.4			
FH	(60°-80°)	14875.8	36.6			G5
FVH	(80°-90°)	690.0	1.7			G4/750
BL	(0°-30°)	2078.7	5.1	B3/2500		
BM	(30°-60°)	3365.9	8.3	B3/5000		
BH	(60°-80°)	1908.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	202.5	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°	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4
2.5°	6936.0	6919.6	6940.2	6969.0	7000.6	7043.1	7067.8	7078.8	7121.4	7137.9	7173.6
5°	6614.8	6606.5	6640.9	6690.3	6760.3	6859.2	6938.8	6953.9	7066.5	7146.1	7218.9
7.5°	6381.4	6381.4	6421.2	6480.2	6558.5	6691.7	6804.2	6824.8	7015.7	7187.3	7321.8
10°	6196.0	6202.9	6249.6	6319.6	6411.6	6553.0	6702.6	6726.0	7001.9	7283.4	7497.6
12.5°	6072.5	6088.9	6131.5	6194.7	6308.6	6480.2	6669.7	6701.3	7030.8	7420.7	7709.0
15°	6150.7	6178.2	6182.3	6208.4	6271.5	6458.3	6688.9	6721.9	7092.5	7560.7	7949.3
17.5°	6494.0	6503.6	6461.0	6406.1	6375.9	6495.3	6746.6	6780.9	7166.7	7699.4	8179.9
20°	7015.7	7010.2	6918.2	6769.9	6616.1	6635.4	6841.3	6877.0	7266.9	7821.6	8410.6
22.5°	7674.7	7655.4	7514.0	7240.8	6978.6	6868.8	7007.4	7037.6	7417.9	7995.9	8657.7
25°	8473.7	8431.2	8244.4	7877.9	7492.1	7209.2	7257.3	7286.1	7637.6	8190.9	8884.2
27.5°	9316.7	9274.1	9036.6	8593.2	8079.7	7639.0	7601.9	7626.6	7887.5	8335.0	9051.7
30°	10198.1	10152.8	9935.9	9438.9	8703.0	8083.8	7923.2	7932.8	8063.2	8413.3	9189.0
32.5°	11083.7	11041.1	10798.1	10221.5	9379.8	8561.6	8155.2	8142.8	8168.9	8494.3	9344.2
35°	11981.5	11998.0	11713.8	11075.4	10129.5	9092.9	8429.8	8403.7	8346.0	8660.4	9563.8
37.5°	12942.6	12931.6	12563.7	11896.4	10913.4	9669.5	8823.8	8819.7	8620.6	8974.8	9908.4
40°	13585.1	13592.0	13368.2	12736.7	11705.6	10307.9	9329.0	9319.4	9058.6	9445.7	10360.1
42.5°	13836.4	13881.7	13939.3	13538.4	12534.8	11048.0	9931.8	9918.0	9669.5	10121.2	10891.4
45°	13854.2	13944.8	14301.8	14251.0	13375.1	11895.1	10702.0	10663.5	10485.1	11019.1	11525.7
47.5°	13700.5	13793.8	14386.9	14675.2	14126.1	12788.8	11602.6	11572.4	11418.6	12142.2	12212.2
50°	13364.1	13453.3	14211.2	14882.5	14743.9	13648.3	12640.6	12560.9	12478.5	13439.6	12997.5
52.5°	12733.9	12905.5	13976.4	14932.0	15113.2	14411.6	13732.0	13679.9	13725.2	14808.4	13784.2
55°	11241.5	11433.7	13371.0	14890.8	15386.4	15052.8	14823.5	14820.8	15055.5	16244.5	14628.6
57.5°	10405.4	10541.3	12138.1	14820.8	15710.4	15689.8	15904.0	15930.1	16387.3	17808.3	15512.7
60°	9933.1	10075.9	11513.4	14561.3	16212.9	16513.6	17006.5	17058.6	17741.0	19539.5	16576.7
62.5°	9503.4	9659.9	11126.2	14032.7	16804.6	17691.6	18327.2	18373.9	19174.3	21318.8	17605.1
65°	8768.9	8946.0	10559.2	13685.4	17342.8	19227.9	20006.3	20037.9	20820.5	23183.3	18391.8
67.5°	7731.0	7893.0	9489.7	12917.9	17741.0	21093.7	22238.7	22256.5	22452.9	24499.9	18794.0
70°	6518.7	6580.4	7965.7	11333.5	17270.1	22838.7	24685.3	24689.4	23941.1	25342.9	18728.1
72.5°	4580.1	4725.6	5782.8	8579.4	14841.4	22625.9	25955.2	26001.9	24633.1	24917.3	17231.6
75°	2809.0	2962.8	3627.3	5199.3	9415.5	17794.5	23980.9	24305.0	23335.7	22216.7	14076.6
77.5°	1878.2	1935.8	2366.9	3031.4	4265.7	10237.9	18437.1	19046.6	19385.8	16201.9	9002.3
80°	1047.5	1157.4	1569.3	1883.7	1897.4	4068.0	11054.8	11197.6	10785.7	6451.4	2777.4
82.5°	554.7	615.1	1047.5	1106.6	1035.2	1361.9	4120.2	4124.3	3446.1	1729.9	825.1
85°	429.7	480.5	718.0	675.5	528.6	604.1	1359.2	1433.3	1172.5	708.4	269.1
87.5°	214.2	266.3	487.4	428.4	207.3	173.0	486.0	519.0	462.7	277.3	97.5
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°	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4	7169.4
2.5°	7187.3	7199.6	7214.7	7198.3	7192.8	7170.8	7133.7	7125.5	7106.3	7107.7	7118.6
5°	7250.4	7271.0	7262.8	7199.6	7124.1	7018.4	6908.6	6815.2	6753.4	6749.3	6745.2
7.5°	7371.3	7385.0	7320.5	7140.6	6929.2	6684.8	6454.1	6252.3	6130.1	6099.9	6093.1
10°	7560.7	7558.0	7380.9	7018.4	6596.9	6160.3	5789.6	5509.6	5346.2	5298.1	5285.8
12.5°	7772.1	7740.6	7401.5	6796.0	6127.4	5521.9	5052.4	4740.7	4570.5	4515.6	4501.8
15°	7990.4	7912.2	7350.7	6463.7	5550.7	4834.1	4341.2	4052.9	3960.9	3930.7	3925.2
17.5°	8193.6	8042.6	7205.1	6013.4	4893.1	4149.0	3764.6	3649.2	3671.2	3711.0	3712.4
20°	8392.7	8130.5	6971.7	5445.0	4199.8	3584.7	3454.3	3539.4	3643.8	3724.8	3735.7
22.5°	8589.0	8192.3	6671.1	4788.8	3579.2	3267.6	3359.6	3514.7	3634.1	3722.0	3737.1
25°	8753.8	8207.4	6256.4	4088.6	3148.1	3148.1	3314.2	3461.2	3579.2	3665.7	3680.8
27.5°	8814.2	8105.8	5671.6	3440.6	2931.2	3093.2	3251.1	3373.3	3473.5	3565.5	3582.0
30°	8837.5	7917.7	4996.1	2920.2	2842.0	3034.2	3166.0	3270.3	3365.0	3451.5	3466.6
32.5°	8841.7	7691.1	4279.4	2625.0	2780.2	2972.4	3060.3	3152.2	3253.8	3288.2	3293.7
35°	8867.7	7423.4	3524.3	2474.0	2722.5	2914.7	2984.7	3050.6	2885.9	2898.3	2909.2
37.5°	8943.3	7158.4	2892.8	2388.9	2685.4	2884.5	2968.3	2729.4	2600.3	2570.1	2566.0
40°	9084.7	6875.6	2424.6	2320.2	2671.7	2899.6	2862.6	2548.2	2325.7	2159.6	2134.9
42.5°	9281.0	6570.8	2125.3	2274.9	2681.3	2972.4	2715.7	2373.8	2004.5	1897.4	1883.7
45°	9502.0	6250.9	1963.3	2243.4	2714.3	3028.7	2685.4	2141.8	1854.8	1773.8	1767.0
47.5°	9716.2	5859.7	1879.5	2229.6	2759.6	2983.4	2557.8	2070.4	1783.4	1740.9	1745.0
50°	9962.0	5506.8	1828.7	2214.5	2799.4	2954.5	2413.6	2033.3	1756.0	1808.1	1863.1
52.5°	10169.3	5141.6	1783.4	2184.3	2814.5	2903.7	2376.5	2040.2	1756.0	1856.2	1908.4
55°	10415.0	4865.7	1731.3	2121.2	2785.7	2759.6	2350.5	2081.4	1776.6	1713.4	1718.9
57.5°	10732.2	4775.0	1673.6	2022.3	2689.6	2549.5	2338.1	2121.2	1764.2	1724.4	1738.1
60°	11171.5	4871.2	1650.3	1893.3	2539.9	2384.8	2339.5	2100.6	1677.7	1609.1	1610.4
62.5°	11590.3	4978.2	1648.9	1812.3	2355.9	2237.9	2307.9	2033.3	1633.8	1594.0	1609.1
65°	11727.6	4869.8	1583.0	1721.7	2148.6	2062.1	2250.2	1961.9	1600.8	1540.4	1537.7
67.5°	11543.6	4533.4	1449.8	1574.7	1911.1	1857.6	2174.7	1876.8	1548.7	1499.2	1491.0
70°	10997.2	3782.4	1285.1	1381.2	1640.6	1626.9	2055.3	1777.9	1478.6	1436.1	1400.4
72.5°	9526.8	2695.1	1083.2	1149.1	1335.9	1379.8	1890.5	1648.9	1379.8	1287.8	1232.9
75°	7824.3	1994.9	889.7	903.4	1014.6	1134.0	1664.0	1497.9	1263.1	1106.6	1064.0
77.5°	4791.5	1220.5	708.4	713.9	727.7	904.8	1370.2	1329.0	1114.8	922.6	892.4
80°	1551.4	665.9	512.1	538.2	497.0	663.1	1059.9	1131.3	956.9	771.6	738.6
82.5°	590.4	388.5	346.0	363.8	344.6	444.8	773.0	906.1	783.9	634.3	516.2
85°	285.6	219.7	204.6	229.3	212.8	227.9	494.3	667.2	594.5	413.3	384.4
87.5°	101.6	97.5	78.3	105.7	90.6	81.0	151.0	336.4	392.7	284.2	254.0
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)