

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: P317353

Luminaire Tested: **GAN-SA9A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36298 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

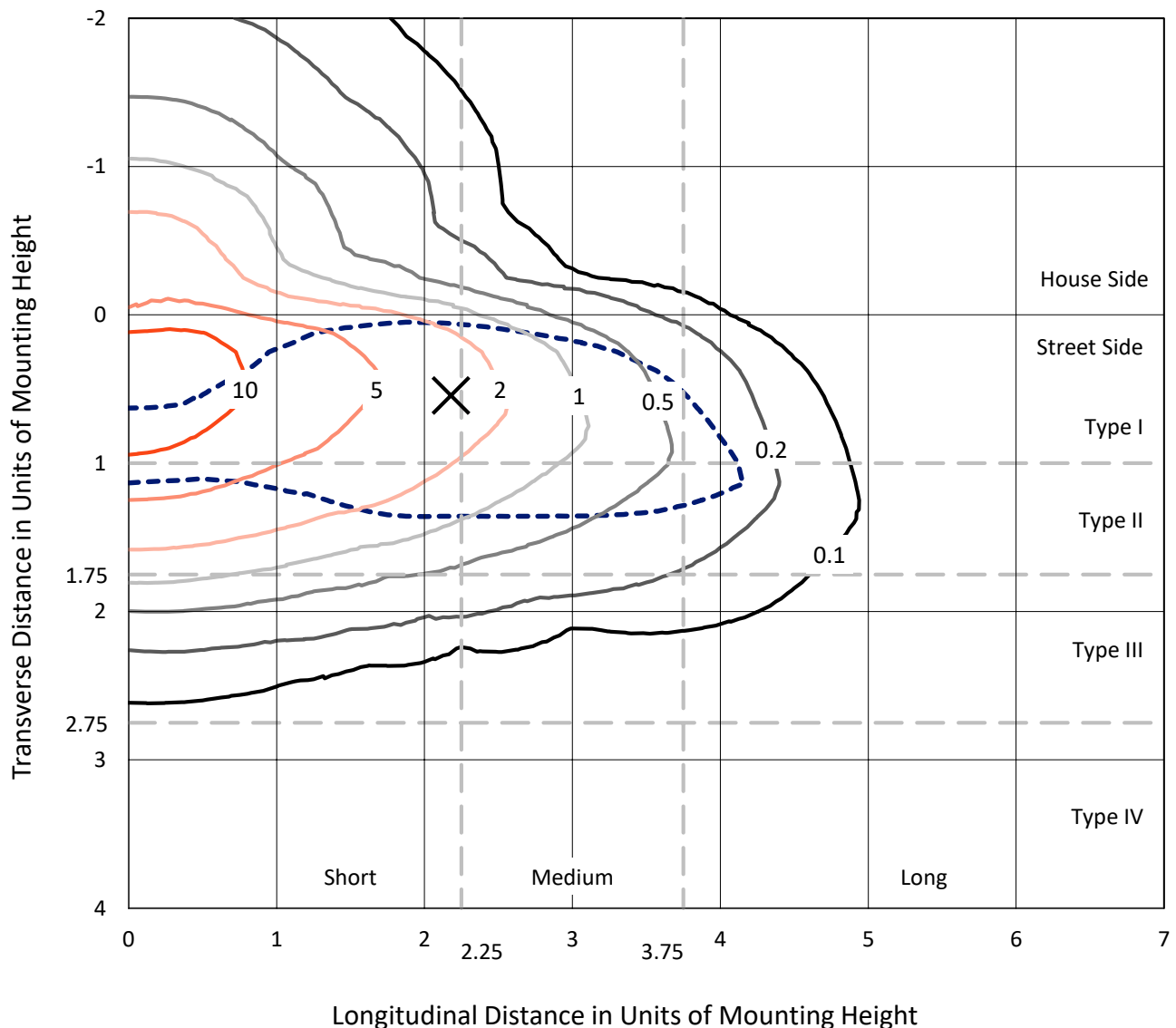
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

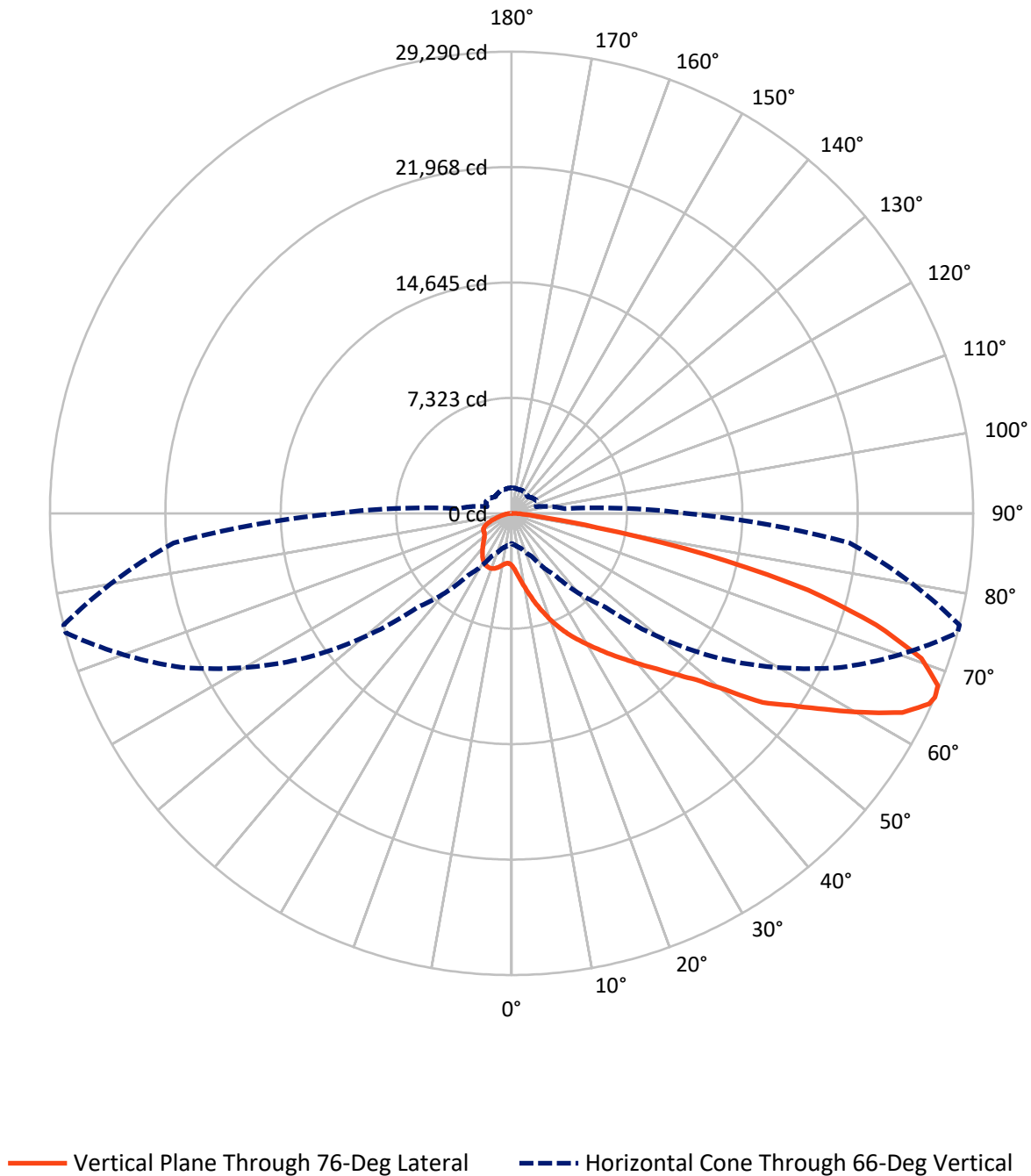
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6107.7	0.0	6107.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	30190.3	0.0	30190.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	36298.0	0.0	36298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.9	1.1
10°-20°	1582.9	4.4
20°-30°	3076.0	8.5
30°-40°	5020.8	13.8
40°-50°	6859.6	18.9
50°-60°	7990.0	22.0
60°-70°	7163.2	19.7
70°-80°	3620.0	10.0
80°-90°	584.6	1.6
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°	36298.0	100.0
0°-180°	36298.0	100.0

Coefficient of Utilization



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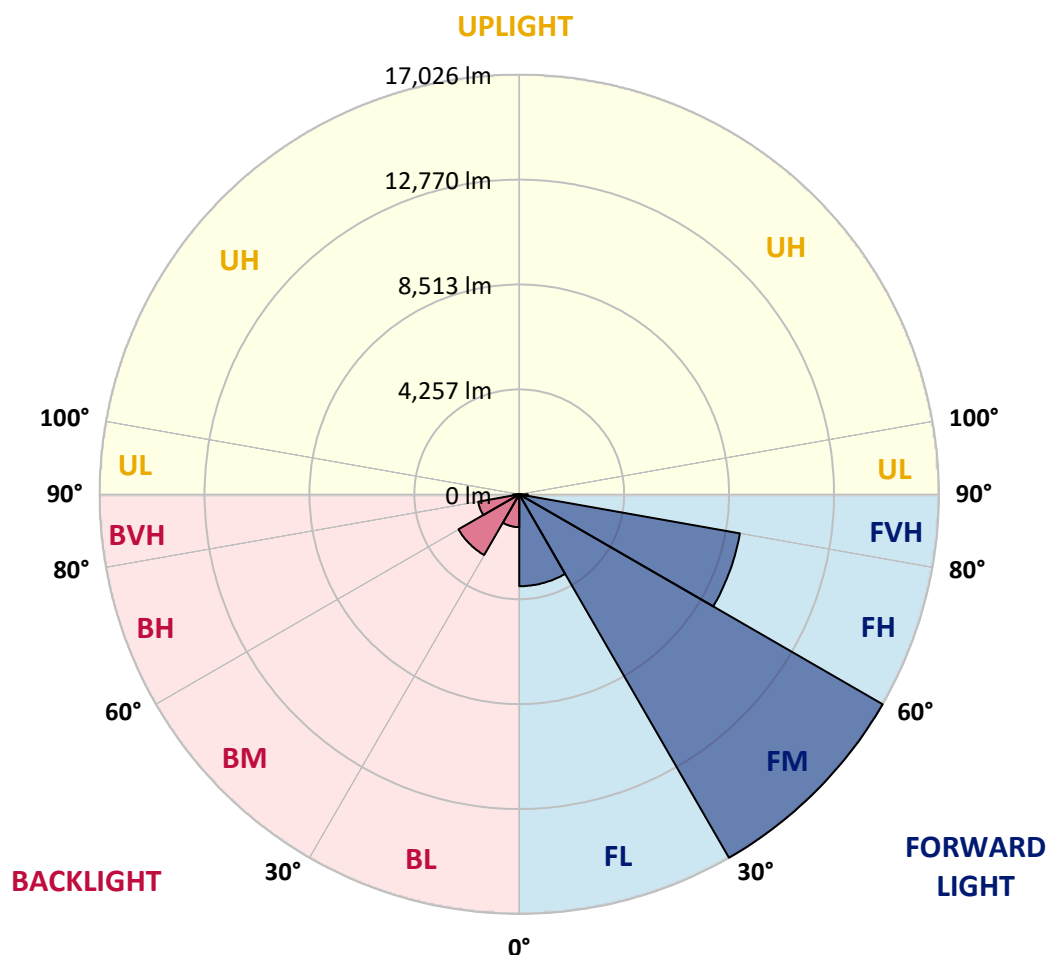
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3727.7	10.3			
FM	(30°-60°)	17026.3	46.9			
FH	(60°-80°)	9091.1	25.0			G4/12000
FVH	(80°-90°)	345.2	1.0			G3/500
BL	(0°-30°)	1332.1	3.7	B3/2500		
BM	(30°-60°)	2844.1	7.8	B3/5000		
BH	(60°-80°)	1692.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	239.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8
2.5°	4400.5	4333.9	4327.8	4230.4	4208.2	4022.2	3885.4	3742.4	3579.8	3547.7	3419.6
5°	5652.5	5646.3	5561.3	5402.3	5277.8	4959.9	4645.7	4313.0	3948.2	3889.1	3600.7
7.5°	6778.8	6768.9	6703.6	6532.3	6352.4	5961.8	5513.2	5003.0	4411.6	4324.1	3845.9
10°	7634.0	7630.3	7608.1	7482.4	7329.6	6955.0	6459.6	5763.4	4950.1	4830.5	4152.8
12.5°	8294.5	8301.9	8316.6	8272.3	8199.6	7880.4	7372.7	6569.3	5524.3	5406.0	4494.1
15°	8741.8	8764.0	8840.4	8903.2	8941.4	8745.5	8253.8	7393.7	6167.5	6025.8	4872.4
17.5°	8967.3	8991.9	9123.8	9313.6	9488.5	9468.8	9078.2	8179.9	6784.9	6648.1	5279.1
20°	9162.0	9180.5	9328.3	9556.3	9865.6	10002.4	9783.0	8936.5	7461.4	7298.8	5710.4
22.5°	9726.4	9749.8	9794.1	9923.5	10197.1	10448.5	10342.5	9652.4	8081.3	7929.7	6119.5
25°	10815.7	10844.0	10747.9	10638.3	10690.0	10865.0	10884.7	10305.5	8709.7	8538.4	6559.4
27.5°	12128.1	12168.7	12004.8	11722.7	11476.2	11408.4	11385.0	10840.3	9309.9	9111.5	6994.4
30°	13413.3	13483.6	13270.4	12904.4	12452.2	12134.2	11898.9	11364.1	9901.3	9711.6	7404.8
32.5°	14669.0	14640.7	14331.4	13974.0	13444.1	13046.1	12476.8	11926.0	10566.8	10348.7	7812.6
35°	15529.2	15539.0	15251.9	14828.0	14322.8	14017.2	13250.7	12532.3	11245.8	11044.9	8276.0
37.5°	16261.1	16215.5	15890.2	15494.7	15059.7	14929.0	14156.4	13200.2	11981.4	11762.1	8768.9
40°	16505.1	16452.1	16239.0	15954.3	15605.6	15594.5	15155.8	13956.8	12813.2	12596.3	9324.6
42.5°	16357.2	16289.5	16202.0	16124.3	16017.1	16066.4	16094.8	14844.0	13727.6	13484.8	9967.9
45°	15811.4	15709.1	15770.7	15939.5	16172.4	16450.9	16942.6	15826.1	14751.6	14548.3	10723.3
47.5°	14972.2	14879.7	15072.0	15433.0	16066.4	16771.3	17744.8	16910.5	15974.0	15771.9	11799.1
50°	13791.6	13818.8	14093.6	14750.4	15707.8	16919.2	18733.1	18346.1	17751.0	17562.4	13266.7
52.5°	11854.5	11859.4	12633.3	13711.6	15072.0	16842.8	19281.4	20181.0	20177.3	19949.3	14664.1
55°	10055.4	10165.1	10777.5	12210.6	14041.8	16537.2	19664.7	21073.2	21770.6	21503.2	15966.6
57.5°	8298.2	8362.2	8942.6	10381.9	12571.7	15722.6	20057.8	22144.0	23606.7	23437.9	17585.8
60°	6299.4	6398.0	6998.1	8327.7	10691.2	14277.2	20094.7	23261.7	25801.4	25631.4	19393.6
62.5°	4088.7	4258.8	4820.7	6066.5	8416.5	12198.3	19237.1	23992.4	27881.5	27821.1	20998.0
65°	2350.0	2478.1	2868.7	3829.9	5806.5	9588.4	17197.7	23711.5	29161.8	29127.3	21598.1
66°	1919.9	2000.0	2299.4	2993.2	4791.1	8420.2	16012.2	23118.8	29288.8	29290.0	21529.1
67.5°	1535.4	1571.2	1705.5	2142.9	3535.4	6674.0	13893.9	21811.3	29131.0	29174.2	21084.3
70°	1270.5	1289.0	1330.9	1436.8	1929.7	4024.6	9861.9	18413.9	27547.6	27580.8	19348.0
72.5°	1139.9	1150.9	1167.0	1181.8	1361.7	2248.9	6023.4	14730.6	24152.6	24195.8	16702.3
75°	1032.6	1038.8	1036.3	1037.6	1142.3	1433.1	3112.7	10998.1	19529.1	19442.9	12794.7
77.5°	907.0	913.1	900.8	903.3	1010.5	1101.7	1549.0	7699.3	13179.2	12570.5	7208.8
80°	766.5	771.4	766.5	775.1	879.8	831.8	900.8	4331.5	5827.4	5512.0	2563.1
82.5°	579.2	600.1	614.9	649.4	724.6	591.5	602.6	1687.0	1774.5	1689.5	786.2
85°	253.8	309.3	463.3	496.6	544.7	354.9	395.6	687.6	722.1	699.9	285.9
87.5°	66.5	72.7	229.2	288.4	301.9	160.2	205.8	313.0	330.3	313.0	94.9
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°	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8	3314.8
2.5°	3351.8	3291.4	3183.0	3086.9	3014.2	2964.9	2915.6	2890.9	2876.1	2861.3	2863.8
5°	3459.0	3337.0	3150.9	3019.1	2945.1	2898.3	2873.7	2863.8	2857.7	2842.9	2842.9
7.5°	3620.4	3447.9	3191.6	3056.0	2998.1	2962.4	2947.6	2942.7	2935.3	2918.0	2920.5
10°	3823.8	3582.2	3276.6	3144.8	3091.8	3052.4	3031.4	3024.0	3010.5	2990.7	2993.2
12.5°	4062.8	3748.6	3388.8	3250.7	3186.7	3133.7	3099.2	3078.2	3054.8	3028.9	3030.2
15°	4324.1	3929.7	3509.5	3345.6	3258.1	3184.2	3128.8	3093.0	3056.0	3024.0	3022.8
17.5°	4589.0	4104.7	3601.9	3397.4	3279.1	3181.7	3106.6	3051.1	3005.5	2966.1	2962.4
20°	4874.9	4262.4	3653.7	3392.5	3239.7	3123.8	3024.0	2955.0	2904.5	2865.0	2858.9
22.5°	5165.7	4410.3	3662.3	3341.9	3152.2	3010.5	2905.7	2829.3	2777.6	2736.9	2722.1
25°	5431.9	4524.9	3626.6	3244.6	3030.2	2877.4	2775.1	2697.5	2655.6	2607.5	2592.7
27.5°	5674.6	4605.0	3555.1	3120.1	2893.4	2743.0	2646.9	2580.4	2534.8	2497.8	2485.5
30°	5892.8	4648.2	3438.1	2972.3	2752.9	2616.1	2534.8	2489.2	2449.8	2402.9	2394.3
32.5°	6099.8	4648.2	3287.7	2810.8	2613.7	2504.0	2455.9	2427.6	2383.2	2337.6	2325.3
35°	6306.8	4619.8	3110.3	2642.0	2485.5	2423.9	2421.4	2388.2	2320.4	2258.8	2242.7
37.5°	6524.9	4561.9	2910.6	2484.3	2380.8	2388.2	2409.1	2335.2	2239.0	2151.6	2128.1
40°	6771.4	4481.8	2703.6	2347.5	2293.3	2372.1	2375.8	2258.8	2071.5	1991.4	1970.4
42.5°	7060.9	4401.7	2511.4	2226.7	2224.3	2324.1	2313.0	2093.6	1981.5	1940.8	1929.7
45°	7441.7	4356.1	2329.0	2112.1	2170.0	2246.4	2205.8	2002.5	1955.6	1932.2	1922.4
47.5°	8041.8	4379.5	2161.4	2020.9	2115.8	2168.8	2006.1	1965.5	1932.2	1903.9	1894.0
50°	8793.5	4366.0	2025.9	1958.1	2054.2	2087.5	1916.2	1917.4	1900.2	1868.1	1853.3
52.5°	9359.1	4260.0	1938.4	1922.4	2000.0	1943.3	1859.5	1870.6	1862.0	1815.1	1799.1
55°	9905.0	4168.8	1894.0	1908.8	1960.6	1763.4	1793.0	1820.1	1811.4	1765.9	1758.5
57.5°	10584.0	4151.5	1866.9	1912.5	1927.3	1673.4	1728.9	1764.6	1758.5	1738.7	1735.0
60°	11415.8	4156.5	1842.3	1918.7	1890.3	1606.9	1668.5	1714.1	1717.8	1714.1	1711.6
62.5°	11873.0	4022.2	1780.6	1901.4	1825.0	1549.0	1605.7	1672.2	1673.4	1680.8	1679.6
65°	11484.8	3620.4	1666.0	1841.0	1715.3	1500.9	1551.4	1624.1	1605.7	1638.9	1638.9
66°	11107.7	3388.8	1609.4	1801.6	1668.5	1482.4	1534.2	1599.5	1576.1	1621.7	1621.7
67.5°	10337.6	2998.1	1507.1	1717.8	1602.0	1456.6	1514.5	1558.8	1526.8	1594.6	1589.6
70°	8930.3	2319.1	1301.3	1528.0	1492.3	1418.4	1487.4	1477.5	1430.7	1534.2	1514.5
72.5°	7529.2	1762.2	1045.0	1279.1	1325.9	1370.3	1449.2	1374.0	1314.8	1387.5	1344.4
75°	5842.2	1324.7	825.6	994.4	1120.1	1295.1	1403.6	1254.5	1169.4	1162.0	1138.6
77.5°	3158.3	909.4	654.3	759.1	889.7	1201.5	1372.8	1126.3	998.1	968.6	950.1
80°	1250.8	591.5	475.7	575.5	622.3	1065.9	1298.8	977.2	823.2	793.6	765.2
82.5°	516.3	350.0	306.8	385.7	405.4	911.9	1165.7	801.0	635.9	879.8	934.1
85°	221.8	192.2	182.4	199.6	229.2	639.6	927.9	611.2	686.4	612.4	486.7
87.5°	66.5	81.3	77.6	76.4	83.8	152.8	494.1	340.1	504.0	191.0	142.9
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)