

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: P318013

Luminaire Tested: **GAN-SA9C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318013
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-SA9C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51894 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

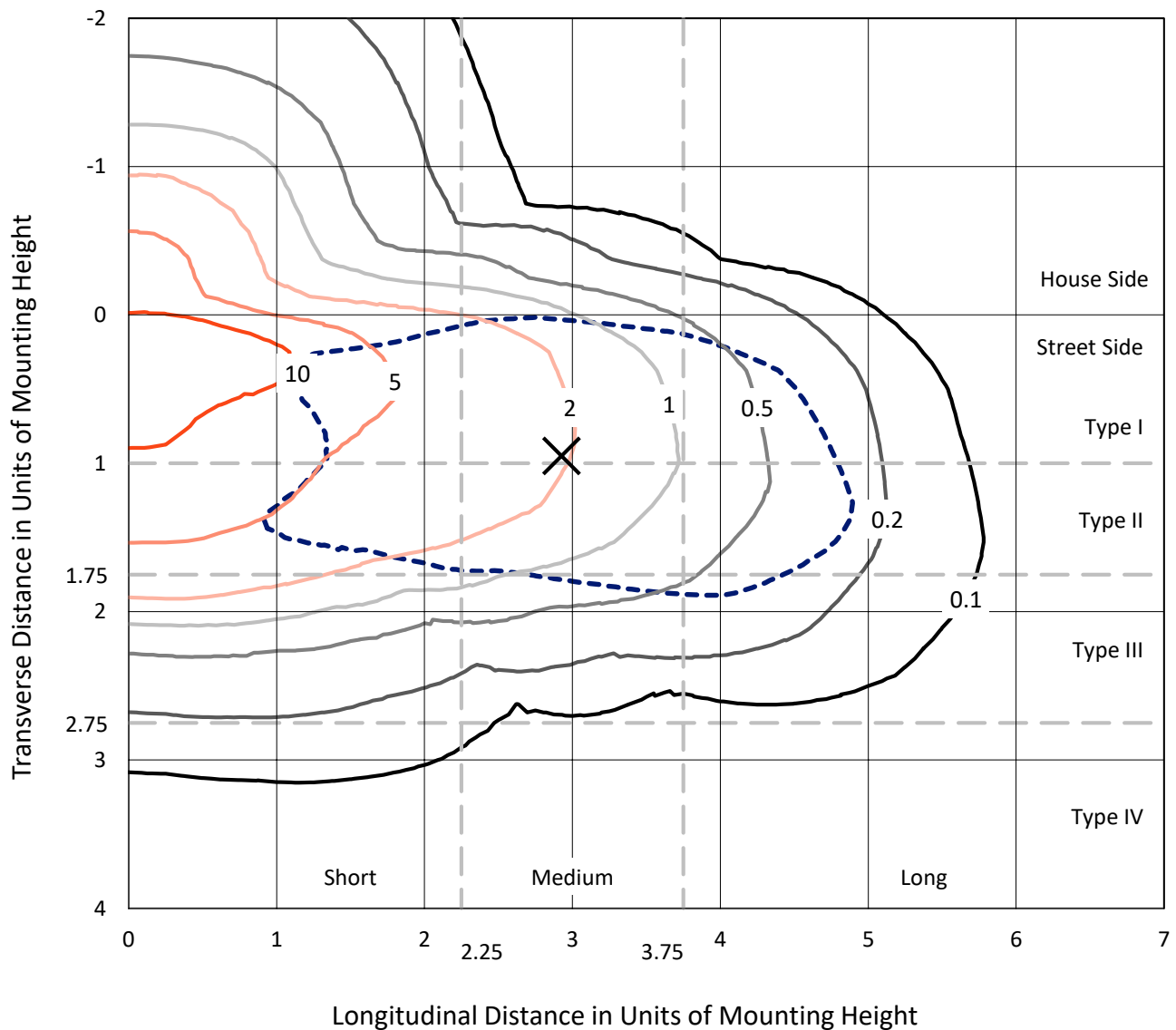
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

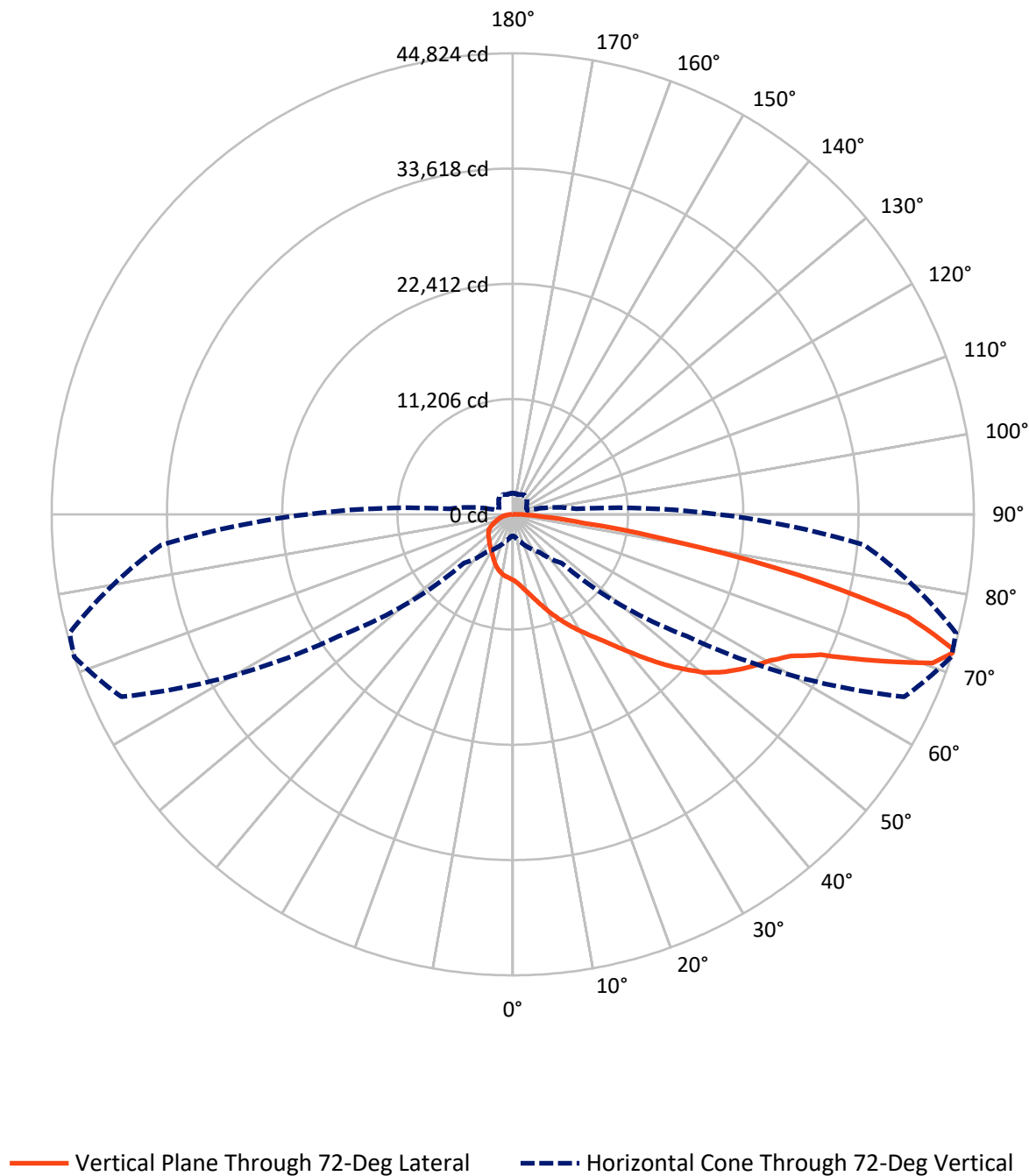
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9626.7	0.0	9626.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	42267.3	0.0	42267.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	51894.0	0.0	51894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.7	1.2
10°-20°	2067.3	4.0
20°-30°	3622.5	7.0
30°-40°	5371.1	10.4
40°-50°	7855.7	15.1
50°-60°	10809.3	20.8
60°-70°	12034.0	23.2
70°-80°	8154.2	15.7
80°-90°	1340.2	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°	51894.0	100.0
0°-180°	51894.0	100.0

Coefficient of Utilization



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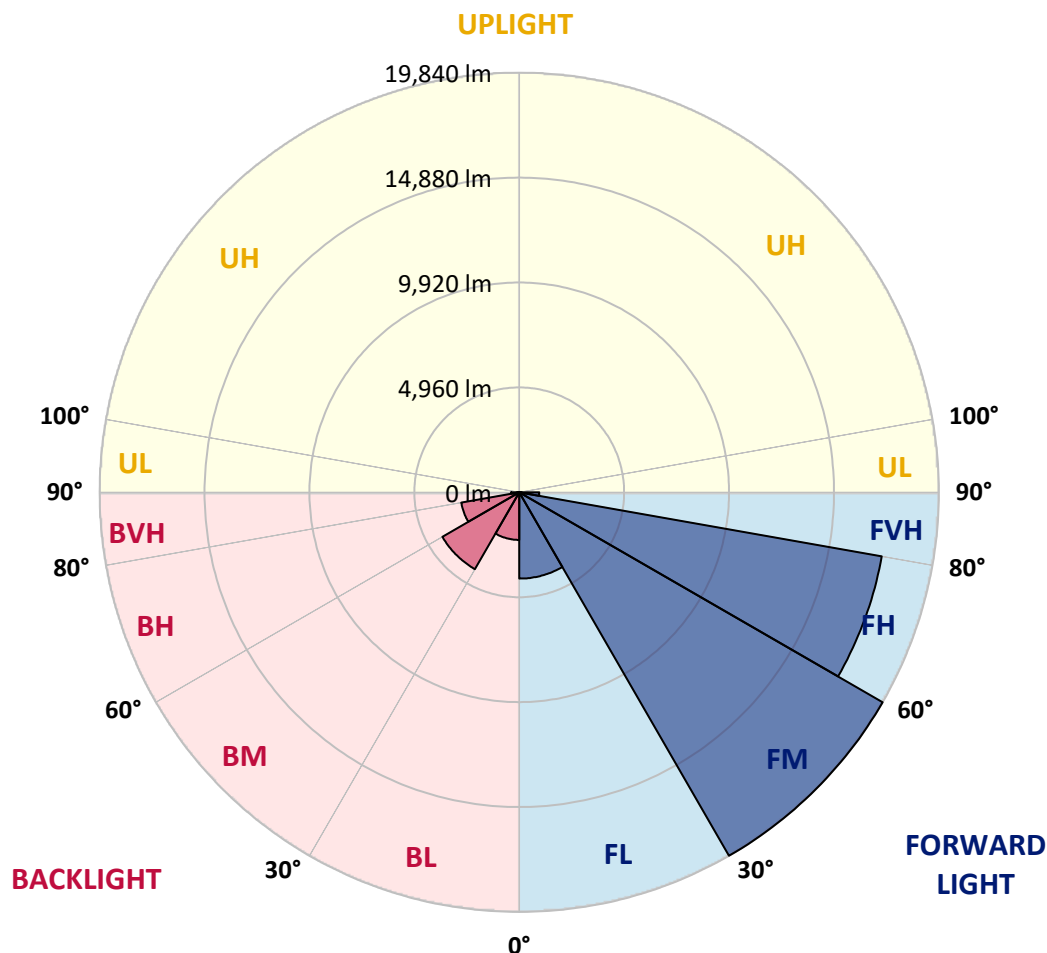
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4079.2	7.9			
FM	(30°-60°)	19839.7	38.2			
FH	(60°-80°)	17403.1	33.5			G5
FVH	(80°-90°)	945.4	1.8			G5
BL	(0°-30°)	2250.4	4.3	B3/2500		
BM	(30°-60°)	4196.3	8.1	B3/5000		
BH	(60°-80°)	2785.1	5.4	B4/5000		G4/5000
BVH	(80°-90°)	394.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3
2.5°	7052.6	7041.9	7004.3	7004.3	6932.9	6872.1	6757.8	6680.9	6589.8	6557.6	6450.4
5°	7735.2	7738.7	7692.3	7660.1	7554.7	7426.0	7231.3	7054.4	6877.5	6806.0	6586.2
7.5°	8308.7	8301.6	8289.1	8262.3	8164.0	8031.8	7769.1	7506.4	7245.6	7138.4	6759.5
10°	8676.8	8692.9	8703.6	8716.1	8675.0	8580.3	8332.0	8012.1	7670.8	7524.3	6966.8
12.5°	8862.6	8891.2	8941.3	9027.0	9094.9	9084.2	8903.7	8564.2	8158.6	7974.6	7225.9
15°	8971.6	9009.2	9087.8	9241.4	9432.6	9541.6	9493.4	9186.1	8734.0	8507.1	7542.2
17.5°	9039.5	9069.9	9191.4	9396.9	9681.0	9970.5	10097.3	9840.0	9384.4	9125.3	7904.9
20°	9086.0	9109.2	9261.1	9502.3	9870.4	10331.4	10685.2	10620.9	10100.9	9765.0	8283.7
22.5°	9189.6	9209.3	9354.0	9597.0	10004.4	10599.4	11251.6	11348.1	10856.7	10476.1	8689.3
25°	9479.1	9479.1	9600.6	9770.3	10152.7	10831.7	11730.5	12157.5	11628.6	11185.5	9064.5
27.5°	10031.2	10025.9	10070.5	10129.5	10419.0	11067.6	12157.5	12872.3	12429.1	11944.9	9429.1
30°	10685.2	10720.9	10726.3	10697.7	10833.5	11362.4	12552.4	13626.3	13235.0	12713.2	9802.5
32.5°	11526.8	11550.0	11523.2	11428.5	11408.9	11780.5	12940.2	14416.1	14107.0	13515.5	10143.8
35°	12595.3	12550.6	12466.7	12273.7	12089.6	12339.8	13383.3	15205.9	15086.1	14485.8	10613.7
37.5°	13740.7	13742.4	13638.8	13201.0	12947.3	13054.5	13994.4	16101.1	16270.8	15640.1	11215.9
40°	14659.1	14707.3	14771.7	14196.3	13867.5	14015.8	14771.7	17139.2	17671.7	17008.8	12000.3
42.5°	15300.6	15356.0	15538.2	15177.3	14836.0	15111.2	15686.5	18247.0	19244.1	18588.3	12918.7
45°	15979.6	16009.9	16138.6	15983.1	15765.1	16385.2	16717.5	19394.2	20907.6	20271.5	13946.1
47.5°	16694.3	16726.4	16858.7	16755.0	16640.7	17575.2	17793.2	20475.2	22501.5	22120.9	15043.3
50°	17577.0	17598.4	17723.5	17535.9	17571.6	18472.2	18754.5	21466.9	24172.1	23782.6	16143.9
52.5°	18781.3	18786.6	18960.0	18790.2	18622.3	19129.7	19581.8	22401.4	25481.9	25297.8	17244.6
55°	19724.7	19781.9	20350.1	20314.4	20217.9	19726.5	20273.3	23291.2	26650.5	26738.0	18413.2
57.5°	19122.6	19345.9	20496.6	21307.9	22097.6	21211.4	21207.8	24293.6	27736.8	28151.4	19697.9
60°	16747.9	17051.6	18747.3	20546.7	23017.8	23795.1	23148.3	25517.6	28834.0	29552.3	21307.9
62.5°	11961.0	12461.3	14759.2	17632.4	21756.3	25506.9	27097.2	27459.9	30325.9	31174.7	23400.2
65°	6046.6	6425.4	8351.6	11812.7	17382.2	24388.3	31389.1	31712.5	32918.6	33672.7	26621.9
67.5°	3673.7	3816.7	4756.5	6570.1	10656.6	18997.5	32790.0	38800.8	37936.0	38336.3	31215.8
70°	2707.0	2812.5	3398.5	4363.4	6128.8	11148.0	28490.9	43859.3	43291.1	43246.5	34610.7
72°	2108.5	2185.3	2703.5	3525.4	4481.4	6688.1	20650.3	41992.1	44824.2	44599.1	34299.8
72.5°	1999.5	2067.4	2539.1	3318.1	4234.8	6062.7	18566.9	40732.4	44713.4	44611.6	33897.8
75°	1574.2	1622.4	1879.7	2565.9	3314.6	3439.6	10174.2	31566.0	39665.7	41314.9	30488.5
77.5°	1302.6	1309.7	1445.5	1867.2	2583.7	2431.9	4997.7	21901.1	28403.3	30217.0	21597.3
80°	1061.4	1070.3	1134.6	1309.7	1954.8	1799.3	2372.9	12593.5	15902.7	15922.4	10270.7
82.5°	845.2	847.0	918.4	957.7	1404.4	1286.5	1359.8	5912.6	6949.0	6684.5	3691.6
85°	595.0	582.5	897.0	786.2	918.4	825.5	750.5	2340.7	2873.2	2748.1	1156.1
87.5°	198.3	205.5	398.5	509.2	536.0	468.1	334.1	897.0	1084.6	1075.7	366.3
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°	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3
2.5°	6416.5	6359.3	6275.3	6182.4	6109.1	6034.1	5978.7	5950.1	5918.0	5891.2	5923.3
5°	6484.4	6377.2	6198.5	6023.4	5894.7	5780.4	5698.2	5655.3	5616.0	5589.2	5592.8
7.5°	6595.2	6421.8	6121.7	5866.1	5687.5	5564.2	5480.2	5451.6	5426.6	5419.4	5428.4
10°	6713.1	6457.6	6019.8	5680.3	5476.6	5374.8	5337.2	5356.9	5374.8	5390.8	5408.7
12.5°	6847.1	6489.7	5871.5	5462.3	5289.0	5249.7	5287.2	5373.0	5435.5	5473.0	5496.3
15°	7022.2	6518.3	5700.0	5244.3	5128.2	5172.9	5299.7	5448.0	5557.0	5626.7	5637.4
17.5°	7183.0	6516.5	5480.2	5024.5	4997.7	5128.2	5319.4	5528.4	5674.9	5773.2	5792.9
20°	7349.2	6468.3	5224.7	4810.1	4865.5	5079.9	5328.3	5580.2	5757.1	5871.5	5898.3
22.5°	7504.7	6384.3	4944.1	4615.4	4754.7	5015.6	5294.4	5549.9	5726.8	5819.7	5848.3
25°	7610.1	6237.8	4660.0	4451.0	4656.5	4937.0	5183.6	5389.1	5521.3	5567.7	5574.9
27.5°	7663.7	6046.6	4392.0	4308.0	4554.6	4808.3	4978.1	5079.9	5117.5	5113.9	5106.7
30°	7670.8	5794.7	4161.5	4191.9	4436.7	4618.9	4699.3	4679.7	4631.4	4549.2	4556.4
32.5°	7647.6	5510.6	3968.5	4081.1	4286.6	4388.4	4392.0	4297.3	4168.7	4038.2	4002.5
35°	7654.7	5231.8	3798.8	3956.0	4104.3	4149.0	4107.9	3968.5	3793.4	3625.5	3589.7
37.5°	7733.4	4988.8	3652.3	3811.3	3902.4	3913.1	3854.2	3707.7	3579.0	3414.6	3400.3
40°	7921.0	4815.5	3512.9	3648.7	3700.5	3705.9	3621.9	3518.3	3529.0	3441.4	3439.6
42.5°	8258.7	4740.4	3389.6	3478.9	3511.1	3521.8	3457.5	3391.4	3484.3	3427.1	3407.5
45°	8694.7	4758.3	3286.0	3312.8	3371.7	3421.8	3382.5	3302.0	3337.8	3089.4	3007.2
47.5°	9198.6	4872.7	3203.8	3169.8	3271.7	3366.4	3305.6	3184.1	3057.3	2810.7	2764.2
50°	9788.2	5049.6	3128.7	3028.7	3162.7	3291.3	3230.6	3057.3	2866.1	2746.3	2730.3
52.5°	10402.9	5265.8	3053.7	2873.2	3025.1	3234.1	3203.8	3028.7	2792.8	2674.9	2653.4
55°	11099.7	5483.8	2959.0	2692.7	2876.8	3207.3	3191.3	2925.0	2737.4	2671.3	2655.2
57.5°	11966.3	5732.1	2833.9	2505.1	2737.4	3110.9	3060.8	2862.5	2680.2	2630.2	2624.8
60°	13095.6	6098.4	2653.4	2305.0	2567.7	2962.6	2951.8	2771.4	2589.1	2553.4	2546.2
62.5°	14789.5	6704.2	2405.1	2104.9	2378.3	2710.6	2808.9	2648.1	2492.6	2490.8	2494.4
65°	17416.2	7615.4	2135.3	1929.8	2187.1	2498.0	2642.7	2521.2	2394.3	2430.1	2435.4
67.5°	20460.9	8371.3	1870.8	1758.2	1992.3	2296.1	2492.6	2394.3	2263.9	2356.8	2358.6
70°	21474.0	7695.8	1638.5	1588.5	1790.4	2101.3	2330.0	2255.0	2122.7	2215.7	2206.7
72°	19983.8	6212.8	1488.4	1459.8	1638.5	1940.5	2185.3	2124.5	1994.1	2056.6	2033.4
72.5°	19513.9	5923.3	1450.9	1427.7	1597.4	1899.4	2147.8	2092.4	1961.9	2015.5	1994.1
75°	17407.2	5144.3	1247.2	1252.6	1393.7	1699.3	1936.9	1919.0	1785.0	1790.4	1783.2
77.5°	12625.7	3772.0	1050.7	1086.4	1186.4	1493.8	1724.3	1713.6	1567.0	1540.2	1534.9
80°	5859.0	1924.4	855.9	872.0	975.6	1249.0	1470.6	1456.3	1338.3	1304.4	1284.7
82.5°	2006.6	914.9	643.3	654.0	755.8	1006.0	1275.8	1266.9	1168.6	1102.5	1061.4
85°	716.5	455.6	450.3	439.6	539.6	791.6	1111.4	1063.2	918.4	782.6	779.1
87.5°	232.3	194.8	232.3	230.5	314.5	536.0	807.6	687.9	666.5	553.9	543.2
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)