

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: P318318

Luminaire Tested: **GAN-SA4B-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19282 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

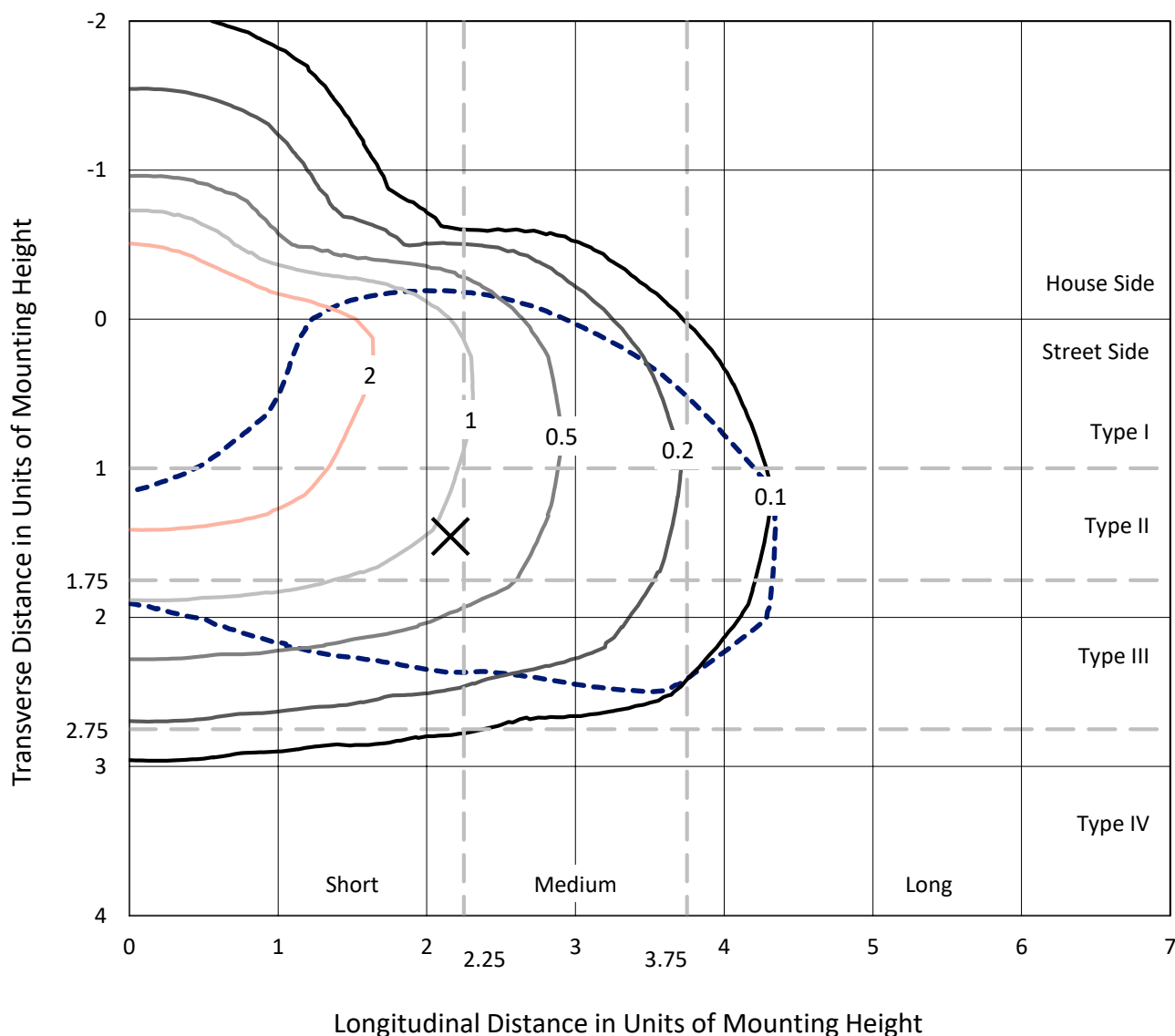
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

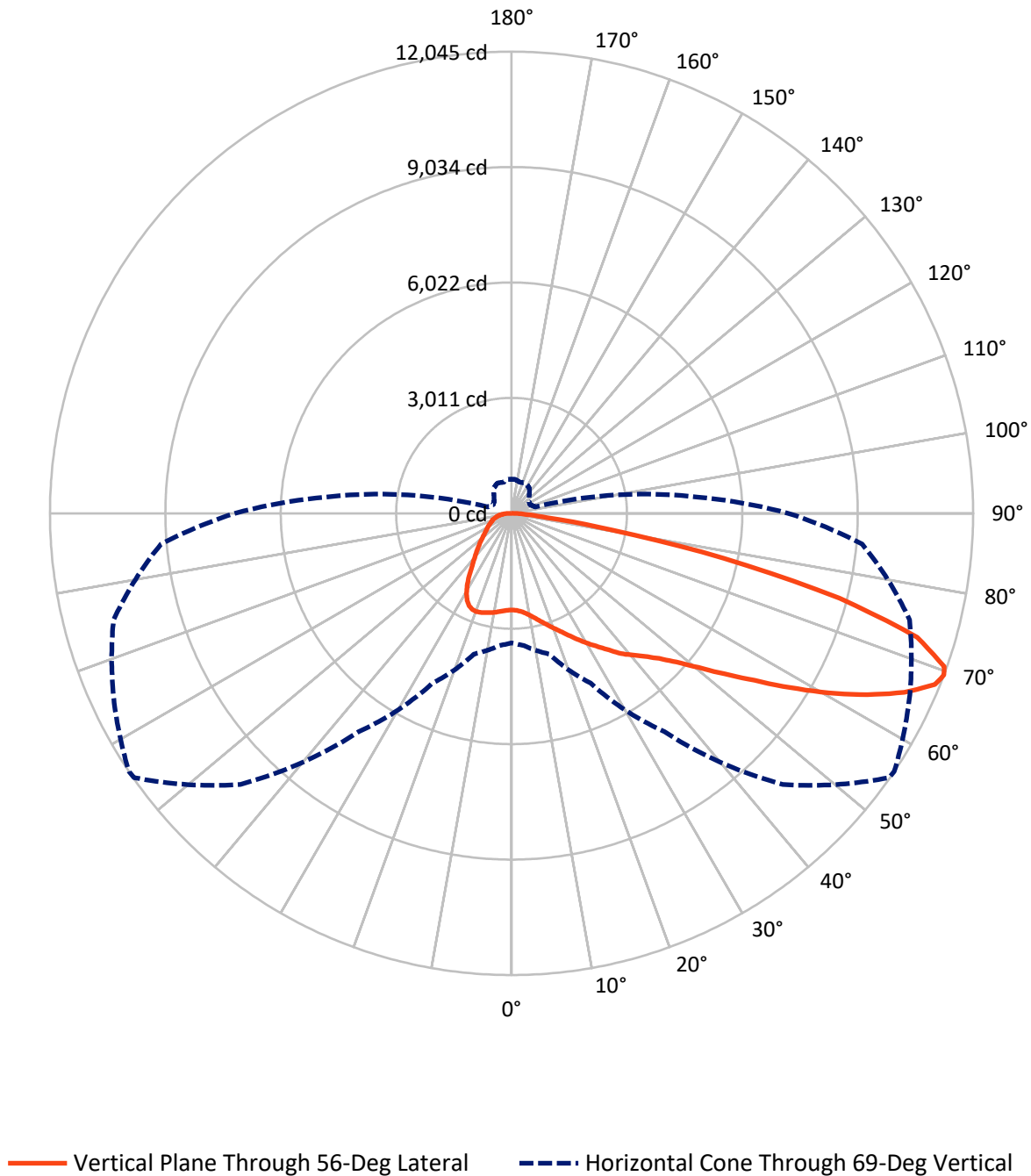
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4294.1	0.0	4294.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14987.9	0.0	14987.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	19282.0	0.0	19282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	1.3
10°-20°	796.1	4.1
20°-30°	1389.7	7.2
30°-40°	1996.3	10.4
40°-50°	2762.8	14.3
50°-60°	4047.9	21.0
60°-70°	4935.1	25.6
70°-80°	2728.5	14.2
80°-90°	377.9	2.0
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°	19282.0	100.0
0°-180°	19282.0	100.0

Coefficient of Utilization



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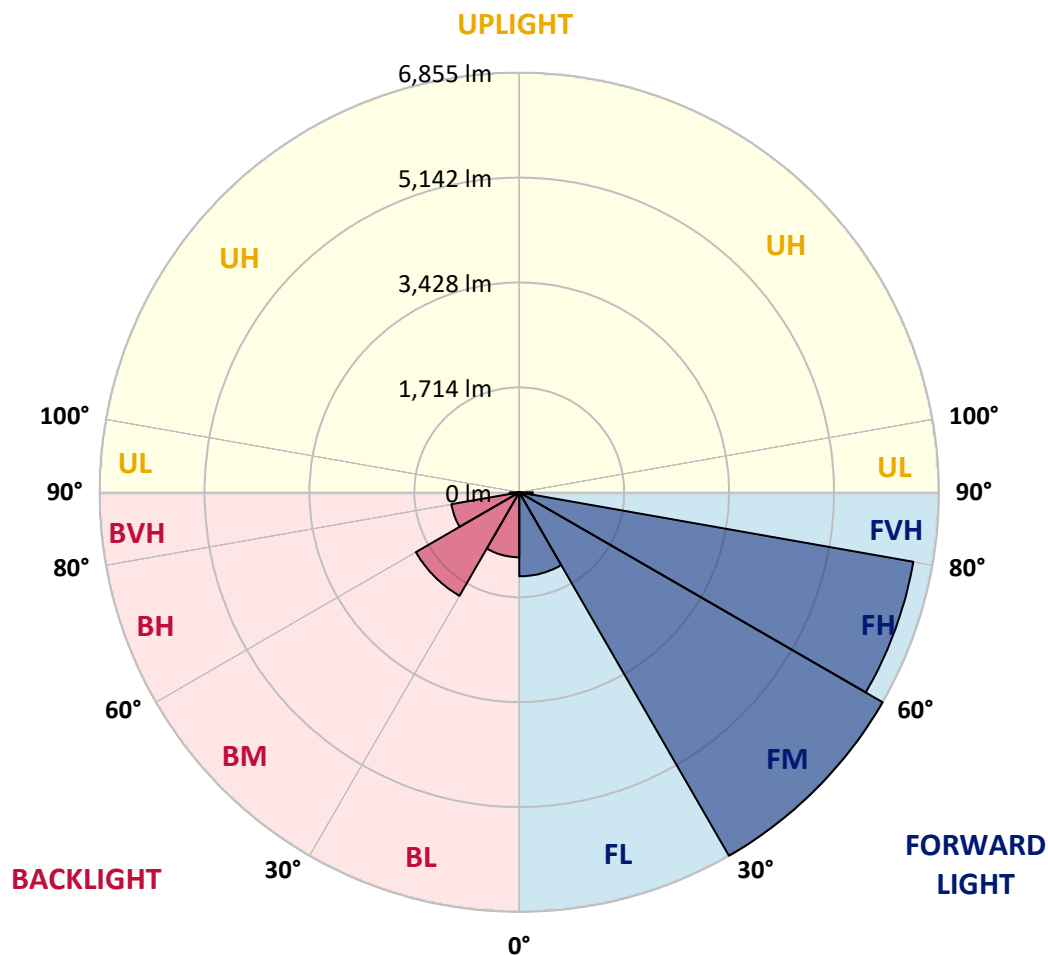
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1372.3	7.1			
FM	(30°-60°)	6855.5	35.6			
FH	(60°-80°)	6537.6	33.9			G3/7500
FVH	(80°-90°)	222.6	1.2			G2/225
BL	(0°-30°)	1061.2	5.5	B3/2500		
BM	(30°-60°)	1951.6	10.1	B2/2500		
BH	(60°-80°)	1126.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	155.3	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8
2.5°	2536.8	2539.4	2537.4	2542.8	2536.8	2540.8	2537.4	2537.4	2535.4	2529.5	2522.8
5°	2576.6	2581.9	2578.6	2583.9	2576.6	2578.0	2572.0	2572.0	2566.0	2553.4	2540.1
7.5°	2639.1	2645.0	2642.4	2647.7	2637.7	2637.7	2629.8	2629.1	2617.1	2596.6	2581.3
10°	2713.5	2721.4	2718.8	2726.7	2718.8	2721.4	2713.5	2713.5	2697.5	2668.3	2649.0
12.5°	2821.7	2831.7	2824.4	2823.7	2820.4	2825.7	2819.1	2817.8	2803.1	2763.3	2736.7
15°	2966.5	2977.2	2961.9	2960.6	2942.0	2940.0	2940.0	2938.0	2928.7	2880.9	2837.0
17.5°	3133.3	3136.6	3123.3	3102.1	3078.1	3062.9	3060.9	3066.2	3066.2	3010.4	2940.6
20°	3296.7	3302.7	3292.0	3268.1	3237.6	3215.0	3199.0	3209.7	3209.0	3142.6	3043.6
22.5°	3474.7	3488.6	3472.7	3442.1	3406.3	3381.0	3353.1	3362.4	3363.1	3281.4	3144.6
25°	3705.2	3692.6	3682.6	3639.4	3588.3	3562.4	3536.5	3545.8	3543.1	3430.9	3248.8
27.5°	3909.1	3911.8	3898.5	3852.7	3793.5	3736.4	3735.1	3741.1	3731.1	3586.3	3347.2
30°	4146.3	4147.6	4129.0	4087.8	4023.4	3949.6	3932.4	3942.3	3921.1	3733.8	3450.8
32.5°	4382.1	4388.7	4368.1	4318.3	4266.5	4176.8	4142.3	4148.9	4095.8	3884.5	3557.7
35°	4588.6	4597.9	4591.3	4558.1	4501.6	4424.6	4383.4	4379.4	4313.6	4069.2	3699.2
37.5°	4799.2	4807.8	4800.5	4772.6	4750.1	4668.4	4646.4	4646.4	4532.2	4257.8	3879.2
40°	5015.8	5029.0	5020.4	4981.9	4962.6	4925.4	4872.9	4860.3	4736.8	4484.4	4172.8
42.5°	5217.0	5234.3	5268.8	5246.3	5207.1	5212.4	5106.8	5100.1	5009.8	4819.1	4541.5
45°	5502.7	5527.9	5586.3	5569.1	5561.1	5531.9	5406.3	5400.4	5365.8	5269.5	4999.2
47.5°	5814.2	5848.7	5954.3	5957.7	6043.4	5988.2	5817.5	5796.9	5804.9	5808.9	5557.8
50°	6101.1	6139.0	6312.4	6394.1	6596.0	6608.0	6335.0	6316.4	6347.6	6439.2	6208.8
52.5°	6330.3	6378.1	6594.7	6847.1	7193.2	7291.5	6972.0	6958.0	6981.3	7139.4	6944.7
55°	6498.4	6550.2	6786.0	7245.6	7798.3	7971.7	7705.3	7692.0	7706.6	7907.9	7745.2
57.5°	6537.6	6550.2	6892.3	7514.0	8309.1	8725.6	8602.7	8576.1	8504.4	8679.8	8628.6
60°	6353.6	6404.0	6804.6	7608.3	8704.3	9468.9	9540.6	9507.4	9306.2	9449.6	9408.4
62.5°	5980.2	6070.6	6477.1	7464.8	8859.1	10076.0	10460.6	10420.8	10074.0	10167.0	9969.1
65°	5370.5	5409.0	5836.1	6970.0	8662.5	10464.6	11281.0	11261.0	10824.6	10679.2	10072.7
67.5°	4279.8	4352.2	4714.9	5935.7	7858.1	10418.8	11915.3	11913.3	11314.8	10869.1	9705.4
69°	3381.0	3456.1	3801.5	4889.5	6953.4	9999.6	12021.6	12044.9	11453.0	10753.6	9180.6
70°	2695.5	2782.5	3019.7	4118.4	6150.3	9447.0	11933.3	11975.1	11426.4	10562.9	8696.4
72.5°	1147.2	1217.6	1386.3	2122.9	3748.4	7054.3	10911.0	11069.1	10810.7	9667.5	7187.2
75°	500.8	522.8	599.2	865.5	1663.9	3839.4	8547.6	8839.8	9243.7	8171.6	5353.9
77.5°	366.7	376.0	417.8	508.2	746.6	1450.1	5496.7	5666.7	6666.4	5946.4	3284.1
80°	283.6	290.3	322.8	373.3	487.6	586.5	2506.9	2653.0	3748.4	3054.2	1367.7
82.5°	225.8	230.5	253.1	275.0	336.8	355.4	832.3	923.3	1383.6	843.6	362.0
85°	209.9	215.2	223.2	200.6	215.9	208.6	360.0	376.6	417.8	331.5	151.4
87.5°	95.0	112.3	221.2	156.1	114.9	91.7	147.5	154.1	173.4	174.0	67.1
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°	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8
2.5°	2526.8	2524.8	2528.1	2520.2	2530.1	2529.5	2526.1	2527.5	2534.1	2533.5	2534.1
5°	2542.1	2540.8	2544.7	2538.8	2550.7	2554.7	2555.4	2561.4	2568.7	2570.7	2570.7
7.5°	2580.6	2580.6	2582.6	2574.6	2582.6	2581.9	2578.6	2584.6	2591.9	2592.6	2591.9
10°	2647.0	2647.7	2644.4	2623.8	2617.1	2599.2	2582.6	2583.3	2592.6	2599.9	2601.9
12.5°	2730.7	2728.1	2713.5	2675.6	2647.7	2611.2	2593.9	2593.2	2602.5	2608.5	2610.5
15°	2826.4	2819.1	2781.2	2719.4	2670.3	2634.4	2606.5	2599.9	2594.6	2587.9	2588.6
17.5°	2916.7	2900.1	2837.0	2751.3	2699.5	2651.7	2597.9	2554.7	2524.8	2507.5	2502.2
20°	3008.4	2975.8	2884.8	2781.2	2715.5	2628.4	2524.8	2437.1	2382.7	2357.4	2352.8
22.5°	3092.1	3039.6	2929.3	2812.4	2702.8	2550.1	2387.3	2259.8	2184.1	2150.2	2152.8
25°	3173.8	3100.7	2975.8	2834.4	2639.1	2411.9	2196.0	2039.2	1951.6	1913.7	1912.4
27.5°	3245.5	3162.5	3026.3	2816.4	2520.2	2215.3	1969.5	1816.7	1743.7	1711.1	1705.8
30°	3327.9	3240.2	3093.4	2748.0	2346.1	1988.1	1748.3	1640.7	1588.9	1556.3	1550.4
32.5°	3428.2	3345.8	3148.5	2623.8	2123.6	1751.0	1575.6	1500.5	1453.4	1416.8	1410.2
35°	3574.3	3485.3	3162.5	2445.8	1879.2	1563.6	1448.7	1371.7	1307.9	1260.7	1256.1
37.5°	3757.7	3660.0	3130.6	2215.3	1642.0	1442.1	1343.1	1248.1	1165.1	1098.7	1088.0
40°	4022.0	3874.6	3042.3	1949.6	1467.3	1348.4	1240.2	1131.9	1028.9	951.2	935.9
42.5°	4339.5	4126.3	2906.8	1685.2	1339.1	1253.4	1137.9	1003.7	905.4	850.2	842.3
45°	4743.4	4388.0	2718.8	1454.0	1212.9	1158.5	1027.6	904.0	842.9	802.4	795.8
47.5°	5204.4	4681.6	2521.5	1266.1	1106.0	1069.4	939.3	859.5	811.1	779.2	773.2
50°	5771.0	5013.1	2312.3	1112.0	998.4	962.5	897.4	835.0	796.4	771.9	765.9
52.5°	6410.0	5387.1	2161.5	990.4	909.4	883.5	875.5	821.7	790.5	771.9	765.9
55°	7098.2	5767.7	1998.7	888.1	832.3	839.6	860.9	823.0	801.8	779.2	770.5
57.5°	7787.0	6160.9	1817.4	801.8	771.2	807.1	850.9	825.7	807.7	785.8	777.8
60°	8331.7	6410.0	1536.4	729.3	722.7	771.2	827.0	805.7	782.5	783.2	781.8
62.5°	8586.1	6396.7	1226.2	664.9	674.2	722.7	788.5	774.5	755.3	781.2	783.2
65°	8443.3	6077.9	954.5	606.5	622.4	672.2	748.6	759.2	765.9	815.7	822.3
67.5°	7844.1	5457.5	739.3	555.3	575.2	637.7	752.6	827.0	835.6	888.1	887.4
69°	7224.4	4875.6	642.3	528.7	552.0	646.3	804.4	870.2	837.6	893.4	885.4
70°	6704.9	4415.3	590.5	510.8	541.4	661.6	838.9	869.5	827.7	875.5	862.2
72.5°	5163.9	3176.4	500.8	477.6	505.5	633.0	848.9	850.2	804.4	813.7	791.1
75°	3541.8	2007.4	437.1	432.4	451.0	570.6	817.0	812.4	744.0	730.7	712.1
77.5°	1952.9	1019.6	371.3	389.3	401.9	505.5	742.6	736.0	679.5	651.6	645.0
80°	753.3	446.4	313.5	346.1	354.0	437.7	651.0	645.0	597.8	562.0	552.0
82.5°	284.3	233.8	259.1	299.6	296.9	361.4	551.3	548.0	502.2	449.7	433.8
85°	131.5	140.2	205.3	247.1	227.8	267.7	441.1	447.0	391.2	328.8	328.8
87.5°	55.8	78.4	145.5	186.7	153.4	180.7	323.5	308.9	283.6	196.6	184.7
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)