

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: P192534

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-5MQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23831.6 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 193
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: 28.75 FT

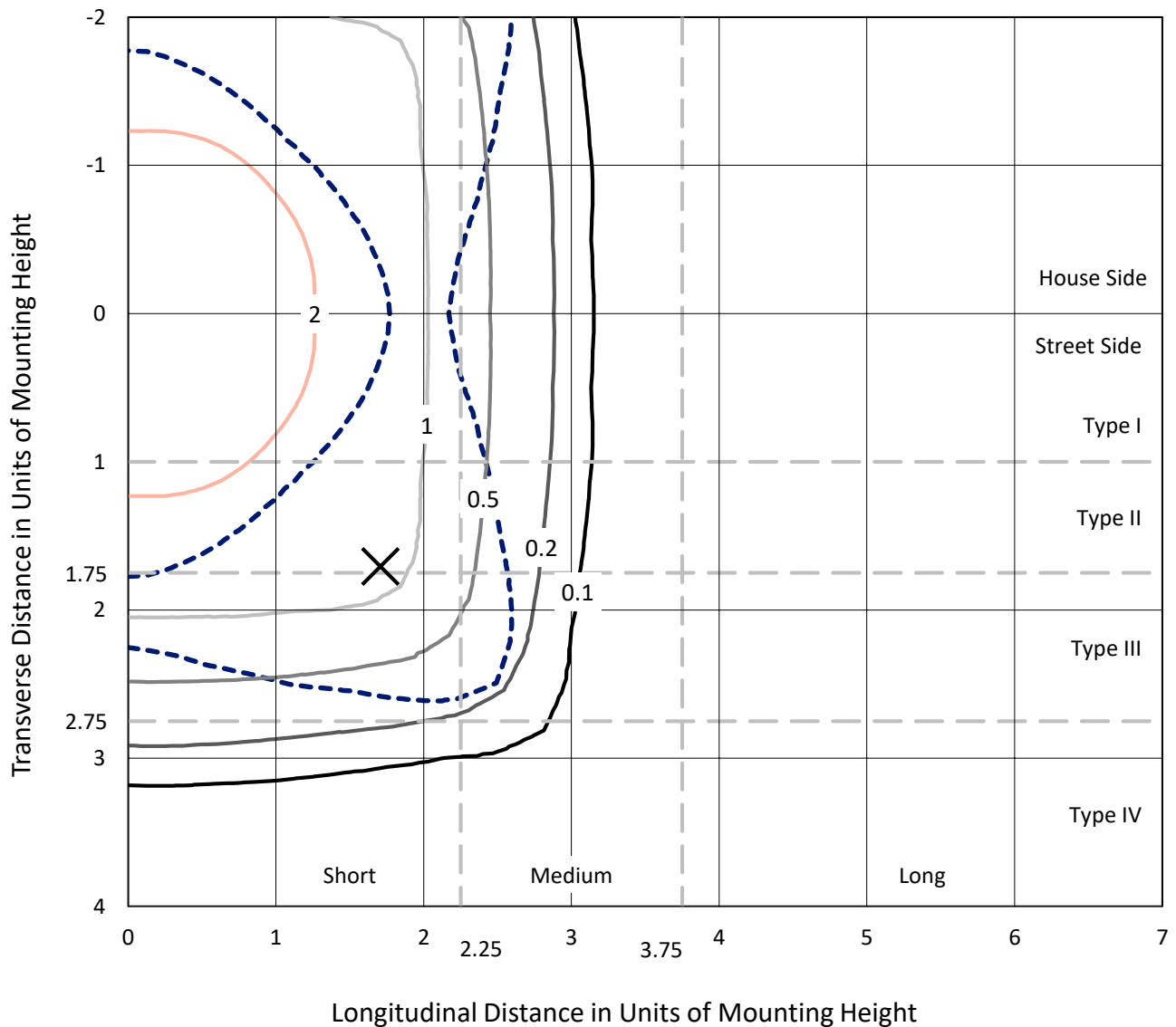


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

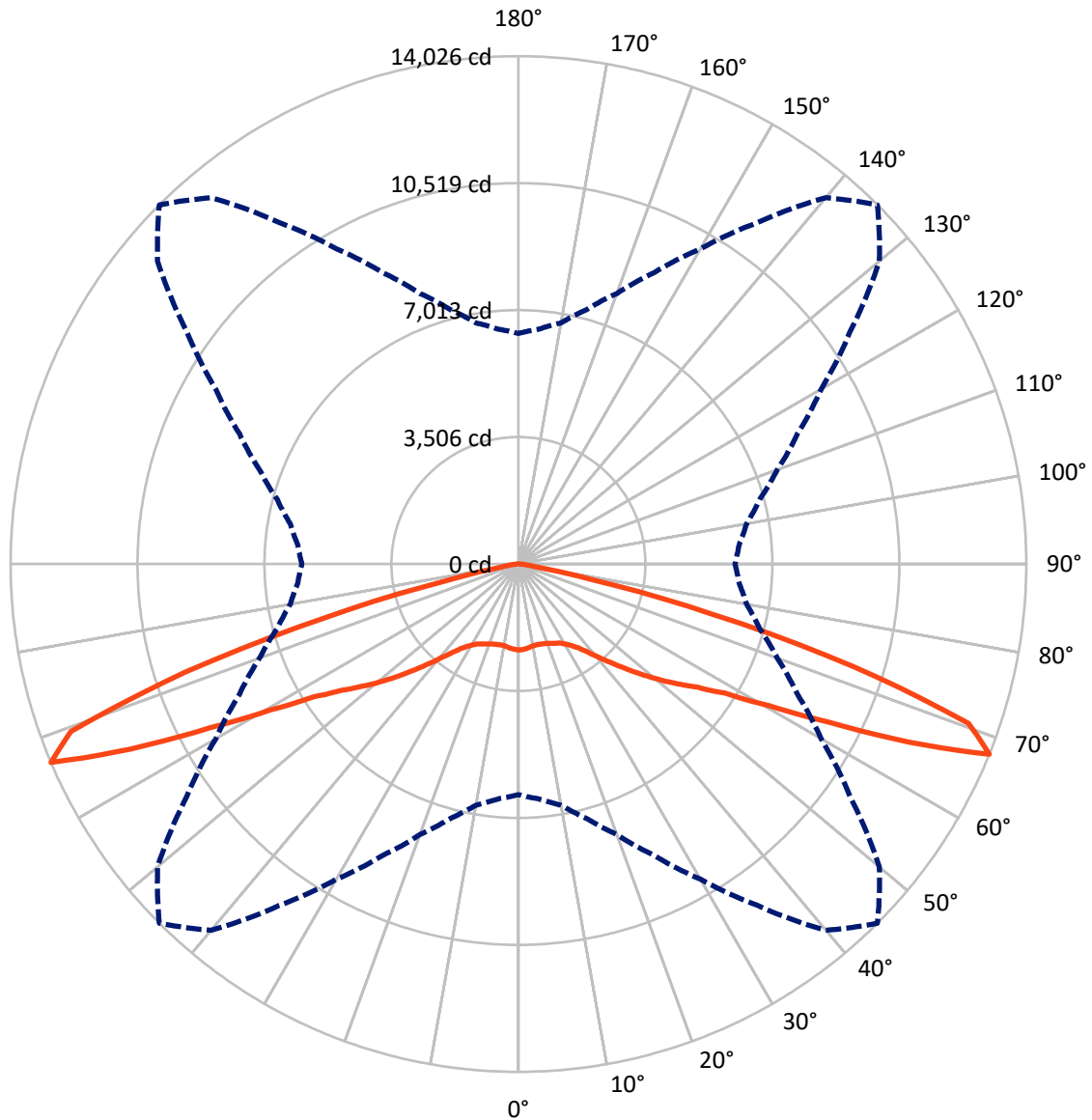


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11915.8	0.0	11915.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11915.8	0.0	11915.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23831.6	0.0	23831.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	0.9
10°-20°	645.0	2.7
20°-30°	1096.5	4.6
30°-40°	1792.5	7.5
40°-50°	3199.9	13.4
50°-60°	5395.1	22.6
60°-70°	8372.4	35.1
70°-80°	2941.7	12.3
80°-90°	166.2	0.7
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°	23831.6	100.0
0°-180°	23831.6	100.0

Coefficient of Utilization



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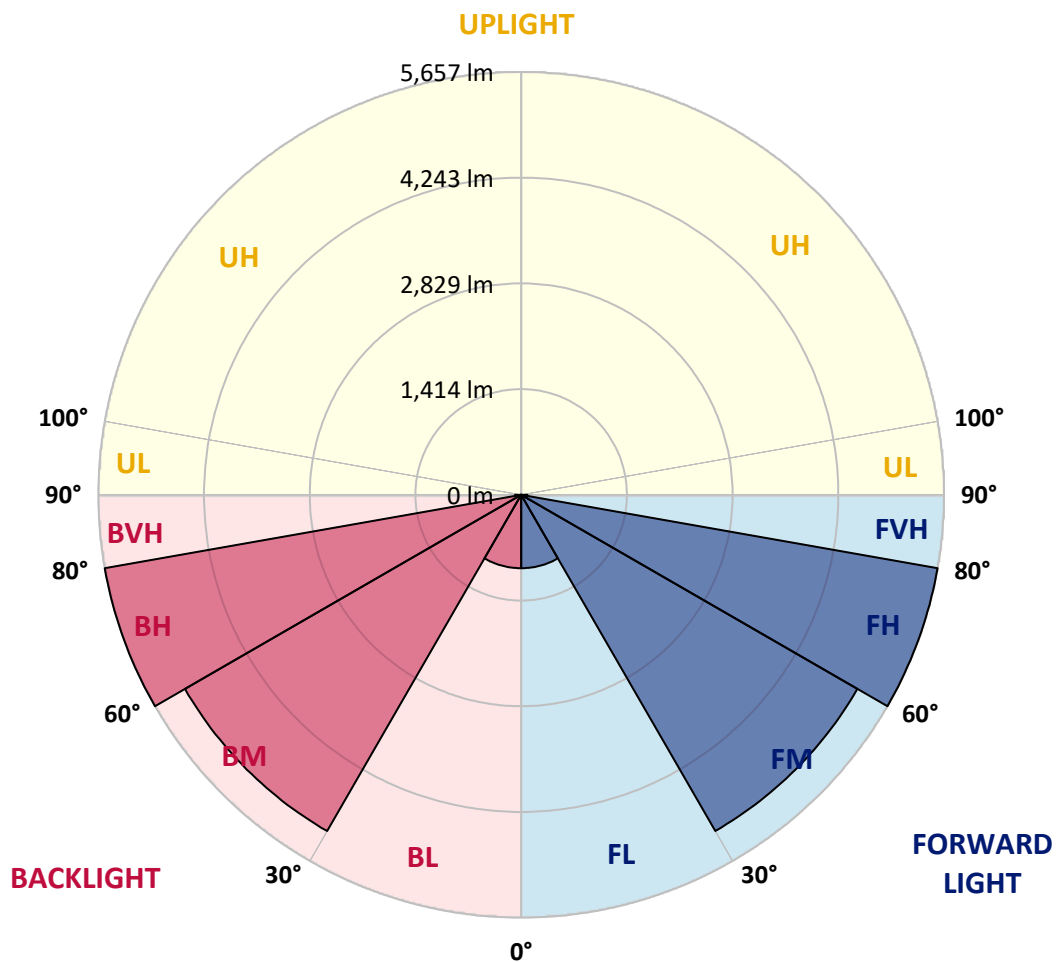
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	981.9	4.1			
FM	(30°-60°)	5193.7	21.8			
FH	(60°-80°)	5657.0	23.7			G3/7500
FVH	(80°-90°)	83.1	0.3			G1/100
BL	(0°-30°)	981.9	4.1	B2/1000		
BM	(30°-60°)	5193.7	21.8	B4/8500		
BH	(60°-80°)	5657.0	23.7	B5		G3/7500
BVH	(80°-90°)	83.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0
2.5°	2366.1	2368.3	2368.3	2368.3	2367.2	2367.2	2365.0	2367.2	2366.1	2362.8	2364.0
5°	2346.5	2348.6	2348.6	2347.6	2350.8	2349.7	2346.5	2348.6	2347.6	2345.4	2346.5
7.5°	2317.9	2321.2	2321.2	2320.1	2323.4	2322.3	2320.1	2321.2	2321.2	2317.9	2317.9
10°	2286.1	2288.3	2288.3	2287.3	2292.7	2292.7	2291.6	2294.9	2296.0	2292.7	2290.5
12.5°	2256.5	2259.8	2259.8	2264.2	2269.8	2271.9	2277.4	2281.8	2286.1	2285.0	2280.7
15°	2239.0	2241.2	2245.6	2251.1	2259.8	2267.5	2276.3	2286.1	2294.9	2297.0	2290.5
17.5°	2228.1	2231.4	2237.9	2245.6	2257.7	2270.9	2283.9	2297.0	2309.2	2313.6	2305.9
20°	2224.7	2226.9	2233.6	2246.7	2263.1	2282.9	2301.5	2316.9	2333.2	2338.8	2333.2
22.5°	2231.4	2235.8	2243.4	2258.7	2280.7	2305.9	2327.8	2348.6	2369.4	2379.3	2371.6
25°	2260.9	2265.4	2275.3	2294.9	2319.0	2345.4	2370.5	2394.6	2413.3	2423.2	2417.7
27.5°	2315.8	2321.2	2333.2	2353.0	2379.3	2407.7	2435.2	2454.9	2470.3	2473.5	2467.0
30°	2397.9	2410.0	2424.3	2446.2	2476.8	2501.0	2528.4	2545.8	2564.6	2564.6	2559.1
32.5°	2526.2	2538.2	2553.6	2574.3	2598.5	2624.9	2648.9	2664.3	2684.0	2685.0	2671.9
35°	2718.0	2723.4	2736.6	2749.7	2771.7	2794.7	2815.5	2825.3	2841.9	2842.9	2830.8
37.5°	2971.1	2972.2	2981.0	2985.4	3005.0	3030.3	3050.1	3056.6	3072.0	3069.7	3057.7
40°	3266.0	3271.4	3274.7	3281.3	3302.2	3326.2	3347.0	3350.3	3366.8	3363.4	3348.1
42.5°	3606.7	3609.0	3627.6	3637.5	3657.2	3669.3	3695.5	3698.9	3718.5	3709.8	3692.3
45°	3989.3	4008.9	4026.5	4046.2	4067.0	4081.3	4102.1	4097.8	4110.9	4097.8	4087.9
47.5°	4391.4	4405.8	4445.2	4475.8	4509.7	4521.9	4551.5	4538.3	4551.5	4532.8	4529.6
50°	4834.2	4859.5	4893.4	4928.4	4964.6	4984.4	5022.7	5006.3	5023.8	5006.3	4996.4
52.5°	5270.4	5277.0	5351.5	5403.0	5453.4	5476.5	5499.4	5491.8	5492.9	5491.8	5482.0
55°	5684.6	5700.0	5774.6	5844.8	5932.3	5997.0	6036.5	6032.1	6022.3	6012.4	5995.9
57.5°	6151.6	6166.9	6252.4	6339.0	6438.7	6530.8	6610.7	6693.0	6724.8	6733.5	6697.4
60°	6782.9	6781.7	6895.7	7000.9	7143.4	7280.4	7455.8	7634.4	7839.4	7934.6	7808.6
62.5°	7425.0	7451.4	7615.7	7802.1	8095.8	8381.9	8705.1	9022.9	9347.3	9611.4	9331.0
65°	7348.3	7449.2	7693.6	8115.6	8658.0	9302.5	9999.4	10737.0	11403.4	11861.5	11347.4
67.5°	6368.6	6512.2	6761.0	7273.8	7952.2	8881.5	10052.1	11510.8	13206.1	14025.9	13010.0
70°	4616.1	4778.4	5039.1	5540.0	6211.8	7095.2	8366.5	10117.9	12362.3	13188.6	12069.7
72.5°	2297.0	2384.8	2545.8	2864.8	3373.4	4090.1	5243.1	6926.4	8912.3	9670.6	8648.1
75°	780.3	820.9	848.3	952.4	1113.5	1395.1	1968.3	3028.1	4619.4	5537.8	4553.7
77.5°	450.4	451.6	470.2	488.8	516.1	546.9	623.6	818.7	1416.0	2011.0	1465.2
80°	291.5	290.4	305.8	320.0	338.6	354.0	358.4	379.2	437.2	518.4	463.6
82.5°	151.3	169.9	203.9	222.5	257.6	264.1	255.3	247.7	261.9	271.8	278.4
85°	83.2	72.3	108.5	140.3	155.5	157.8	157.8	149.0	154.5	151.3	164.4
87.5°	38.4	35.1	42.7	69.1	73.4	62.5	65.8	58.1	41.6	40.5	46.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0	2375.0
2.5°	2364.0	2365.0	2365.0	2368.3	2369.4	2371.6	2373.8	2375.0
5°	2345.4	2348.6	2346.5	2349.7	2349.7	2352.0	2352.0	2353.0
7.5°	2317.9	2321.2	2321.2	2321.2	2320.1	2323.4	2323.4	2323.4
10°	2289.4	2291.6	2290.5	2288.3	2286.1	2289.4	2288.3	2287.3
12.5°	2280.7	2275.3	2270.9	2268.7	2264.2	2265.4	2262.0	2262.0
15°	2286.1	2276.3	2268.7	2265.4	2260.9	2258.7	2256.5	2257.7
17.5°	2300.4	2288.3	2278.5	2273.0	2267.5	2264.2	2259.8	2260.9
20°	2325.6	2311.4	2297.0	2286.1	2276.3	2270.9	2267.5	2266.5
22.5°	2362.8	2342.1	2321.2	2304.9	2291.6	2283.9	2280.7	2278.5
25°	2405.6	2382.6	2358.5	2339.9	2326.6	2316.9	2310.3	2310.3
27.5°	2459.3	2440.7	2418.8	2396.8	2384.8	2375.0	2370.5	2368.3
30°	2549.1	2531.6	2514.0	2493.3	2477.9	2468.0	2460.4	2453.9
32.5°	2664.3	2650.0	2635.8	2620.4	2606.2	2593.0	2580.9	2575.5
35°	2826.4	2815.5	2805.7	2788.1	2782.7	2774.9	2768.4	2762.8
37.5°	3050.1	3045.6	3045.6	3027.0	3022.6	3019.4	3012.8	3013.8
40°	3343.8	3348.1	3342.7	3336.1	3332.7	3324.0	3324.0	3331.7
42.5°	3691.1	3694.5	3706.5	3695.5	3707.6	3696.7	3690.0	3695.5
45°	4094.5	4106.5	4130.6	4119.6	4127.4	4108.7	4085.7	4086.9
47.5°	4547.1	4558.1	4567.9	4560.3	4561.3	4530.7	4500.0	4492.3
50°	5017.3	5021.7	5027.1	5016.2	5018.4	4984.4	4949.3	4950.4
52.5°	5482.0	5502.8	5524.7	5495.0	5488.5	5450.2	5400.8	5381.1
55°	6013.5	6043.0	6017.9	5966.3	5914.9	5863.3	5798.7	5787.7
57.5°	6668.8	6618.5	6539.5	6442.0	6370.8	6298.5	6232.7	6205.3
60°	7580.7	7391.1	7248.6	7103.9	7013.1	6924.2	6837.7	6824.5
62.5°	8869.5	8541.8	8258.1	7958.8	7714.4	7523.7	7371.4	7328.6
65°	10484.9	9710.1	9038.3	8411.5	7866.7	7455.8	7197.1	7083.2
67.5°	11179.7	9649.9	8497.9	7608.0	6895.7	6398.1	6118.7	5979.5
70°	9824.0	8002.5	6749.9	5858.9	5210.1	4679.7	4426.5	4277.5
72.5°	6758.7	5090.7	4025.4	3285.7	2767.3	2323.4	2148.0	2134.9
75°	3034.6	2010.0	1385.3	1067.5	898.6	781.4	745.2	717.9
77.5°	849.4	628.0	560.1	523.9	488.8	448.3	432.8	436.2
80°	413.2	390.2	374.9	351.9	320.0	286.0	270.8	277.3
82.5°	274.0	270.8	280.6	264.1	218.1	185.2	155.5	142.5
85°	166.6	168.8	172.1	173.1	146.9	103.0	70.2	78.8
87.5°	65.8	75.6	82.2	85.4	80.0	49.2	39.5	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)