

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: P192591

Luminaire Tested: **GAN-AF-03-LED-U-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-5NQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18130.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

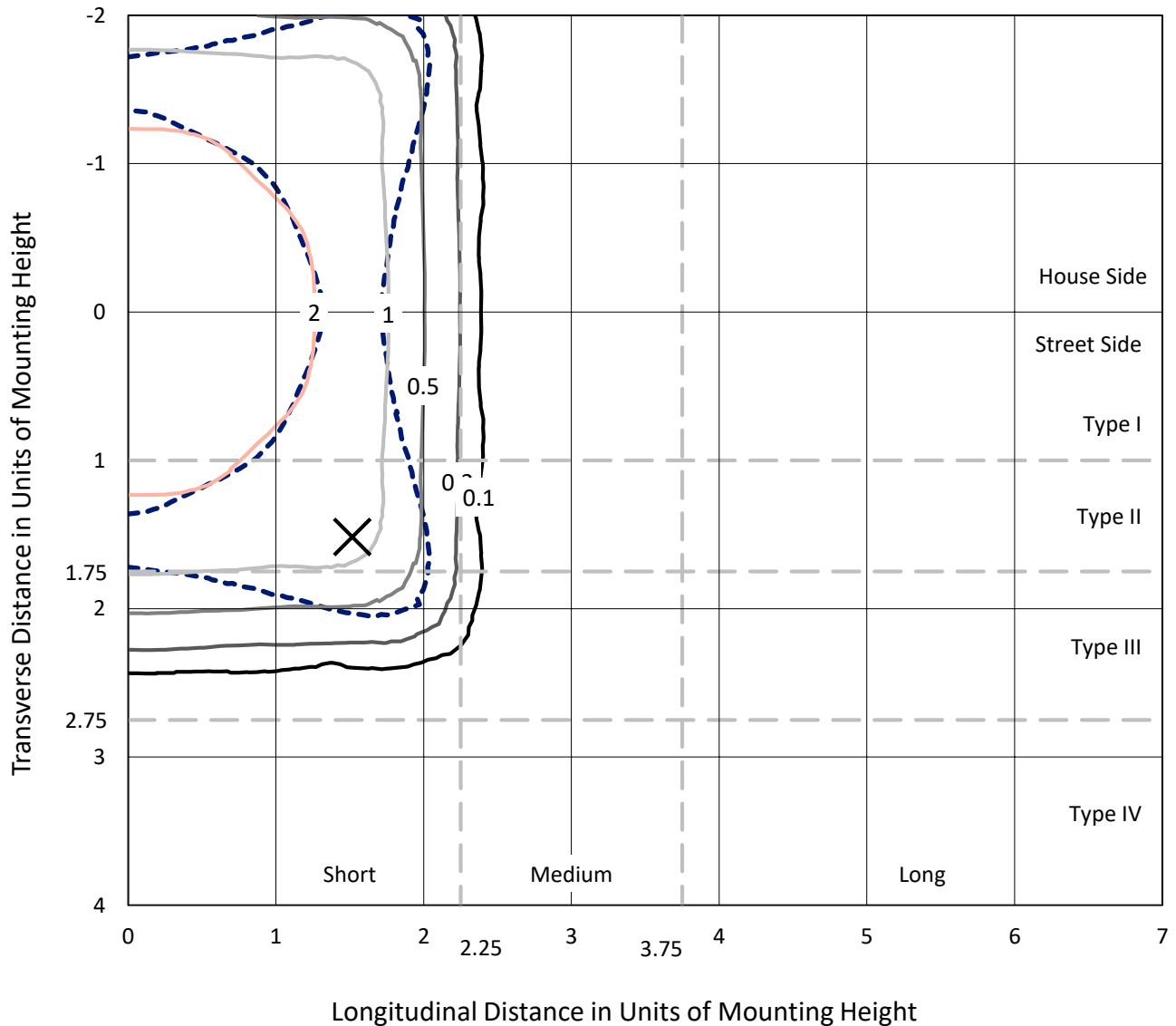
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GAN-AF-03-LED-U-5NQ-7030

Iso-Footcandle Lines of Horizontal Illumination

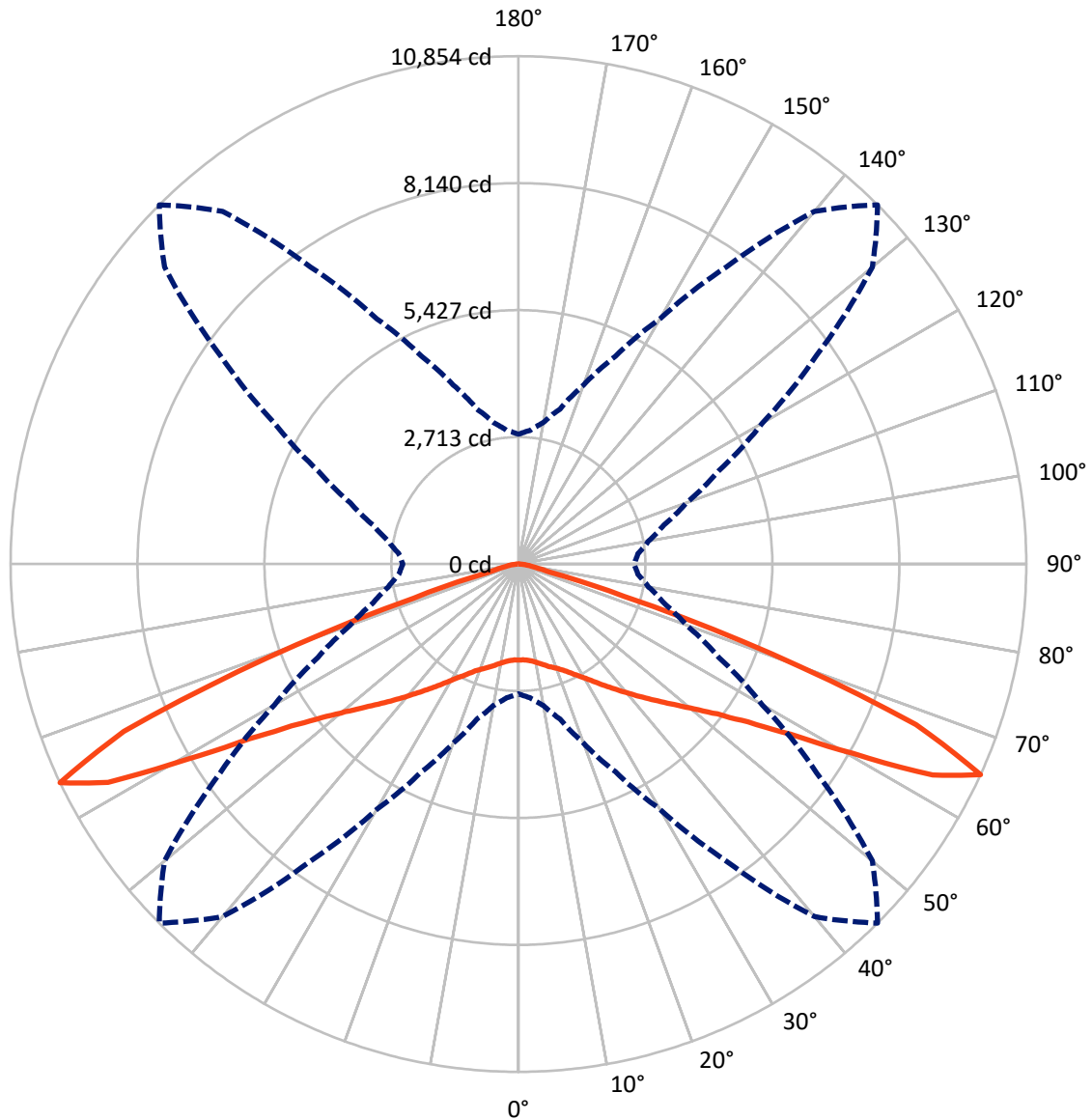
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P192591
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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9065.3	0.0	9065.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9065.3	0.0	9065.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	18130.5	0.0	18130.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	1.1
10°-20°	641.3	3.5
20°-30°	1199.1	6.6
30°-40°	2028.0	11.2
40°-50°	3316.0	18.3
50°-60°	5272.9	29.1
60°-70°	4766.4	26.3
70°-80°	603.2	3.3
80°-90°	103.8	0.6
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°	18130.5	100.0
0°-180°	18130.5	100.0



REPORT NUMBER: P192591

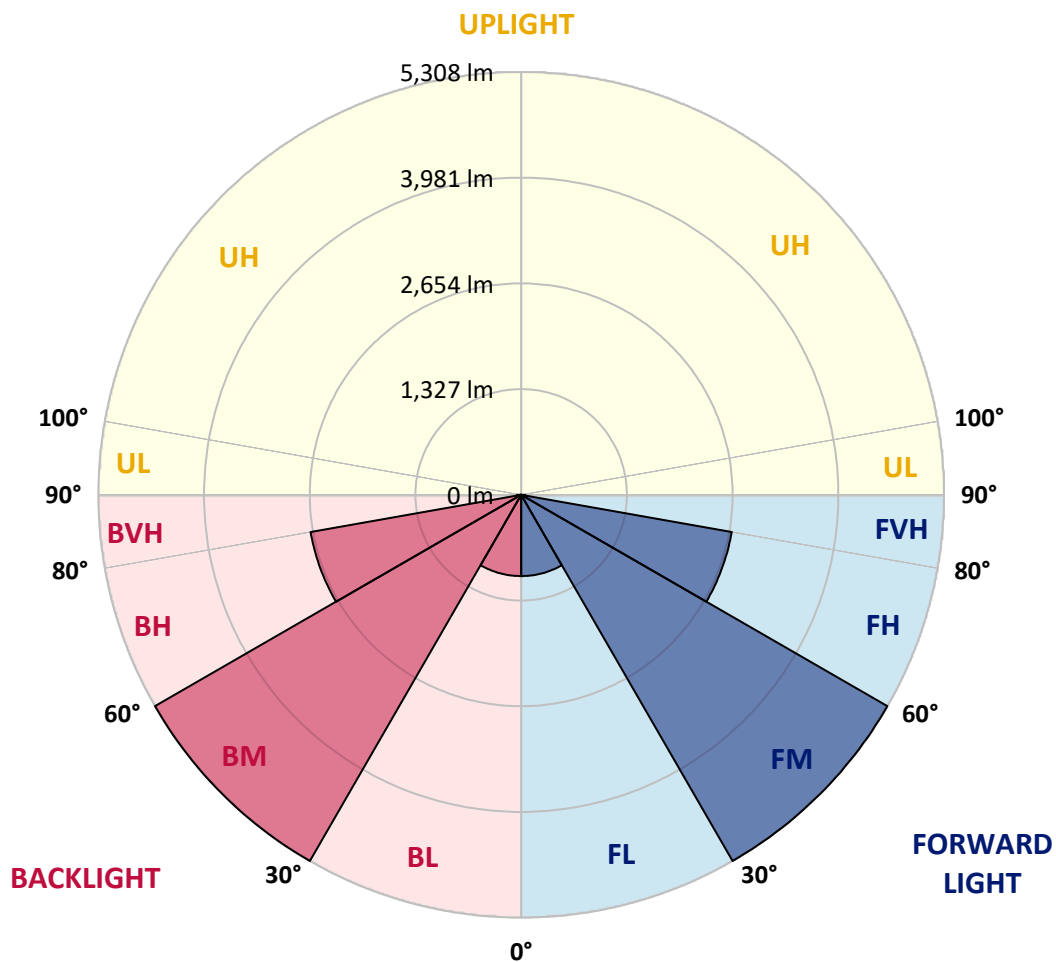
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1020.2	5.6			
FM	(30°-60°)	5308.4	29.3			
FH	(60°-80°)	2684.8	14.8			G2/5000
FVH	(80°-90°)	51.9	0.3			G1/100
BL	(0°-30°)	1020.2	5.6	B3/2500		
BM	(30°-60°)	5308.4	29.3	B4/8500		
BH	(60°-80°)	2684.8	14.8	B4/5000		G2/5000
BVH	(80°-90°)	51.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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 CATALOG NUMBER: GAN-AF-03-LED-U-5NQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5
2.5°	2053.2	2054.8	2056.6	2054.8	2056.6	2054.1	2052.3	2054.8	2052.3	2049.8	2051.5
5°	2071.0	2071.9	2071.9	2069.3	2071.9	2070.1	2067.6	2071.0	2068.5	2065.9	2067.6
7.5°	2100.7	2104.2	2101.6	2099.0	2100.7	2099.0	2097.3	2098.3	2097.3	2094.8	2095.6
10°	2140.6	2143.2	2141.5	2140.6	2142.3	2141.5	2139.8	2139.0	2139.8	2137.2	2137.2
12.5°	2189.0	2188.1	2187.4	2188.1	2190.7	2190.7	2189.9	2190.7	2192.4	2193.3	2191.6
15°	2236.5	2238.2	2238.2	2238.2	2243.4	2247.6	2250.2	2251.9	2255.2	2256.1	2252.7
17.5°	2296.0	2296.0	2295.2	2296.0	2301.1	2307.9	2310.5	2313.9	2317.3	2319.8	2315.5
20°	2362.3	2364.0	2364.0	2365.7	2372.4	2380.1	2380.1	2381.8	2380.1	2381.8	2379.2
22.5°	2442.9	2448.1	2448.1	2448.8	2455.6	2465.0	2462.4	2465.0	2460.7	2464.2	2460.7
25°	2548.3	2555.9	2554.2	2554.2	2559.3	2565.2	2566.1	2571.1	2570.4	2574.5	2572.0
27.5°	2667.1	2678.9	2682.5	2681.5	2684.9	2690.8	2692.5	2698.4	2695.1	2698.4	2696.8
30°	2809.7	2814.8	2821.6	2824.2	2828.4	2834.4	2834.4	2835.2	2831.0	2836.1	2838.5
32.5°	2957.5	2966.8	2973.6	2988.9	2996.6	3000.8	2999.9	3001.7	2997.4	3004.2	3009.3
35°	3152.7	3159.6	3170.6	3182.5	3192.7	3191.8	3189.3	3190.2	3190.2	3196.1	3201.2
37.5°	3388.0	3389.7	3404.1	3421.1	3426.2	3421.1	3405.8	3402.5	3394.8	3402.5	3411.0
40°	3636.8	3642.7	3671.5	3682.6	3685.2	3675.8	3653.7	3641.1	3624.0	3633.4	3645.3
42.5°	3897.5	3909.3	3935.6	3955.1	3963.7	3957.7	3927.3	3907.6	3885.6	3890.6	3902.5
45°	4186.2	4200.6	4237.9	4256.6	4272.8	4263.4	4233.7	4204.0	4169.3	4171.7	4190.4
47.5°	4508.8	4523.3	4571.6	4603.1	4611.7	4609.8	4576.8	4536.0	4488.5	4486.7	4502.9
50°	4870.6	4885.0	4945.3	4993.7	5018.3	5015.8	4976.6	4919.0	4861.2	4862.0	4882.5
52.5°	5223.8	5241.6	5304.4	5387.7	5436.0	5470.8	5447.1	5392.7	5322.2	5323.9	5342.7
55°	5555.0	5584.7	5656.8	5769.8	5859.8	5957.5	5985.4	5983.8	5941.3	5953.2	5971.9
57.5°	5715.5	5759.6	5870.8	6049.1	6232.5	6431.2	6599.4	6725.0	6778.6	6859.2	6840.5
60°	5411.4	5481.9	5645.8	5908.2	6270.7	6685.1	7129.1	7563.2	7933.4	8212.7	8052.2
62.5°	4430.7	4522.5	4721.1	5057.4	5605.9	6269.1	7119.0	8144.7	9262.2	9936.4	9455.0
65°	2772.4	2867.5	3069.5	3429.6	4071.5	4896.0	6049.1	7749.1	9837.0	10853.5	9873.5
67.5°	1080.9	1132.7	1242.3	1472.4	1954.6	2688.4	3845.7	5774.9	8272.1	9162.8	8118.4
70°	541.7	546.9	567.2	609.6	713.3	926.4	1409.6	2677.3	4744.0	5729.9	4573.4
72.5°	391.4	392.2	402.5	421.2	454.3	501.8	593.5	819.5	1542.8	2358.1	1446.0
75°	299.7	303.0	309.1	319.2	337.1	360.9	394.0	472.1	585.1	678.5	570.7
77.5°	231.0	237.7	242.0	251.3	262.3	278.5	287.9	317.6	369.4	388.9	383.0
80°	175.8	181.7	191.1	198.8	206.4	213.9	210.6	224.2	251.3	267.4	259.0
82.5°	112.1	118.9	146.1	152.9	156.2	161.3	155.3	156.2	168.2	178.3	168.2
85°	72.2	76.4	92.6	101.1	101.9	105.3	102.7	96.8	96.8	88.3	99.3
87.5°	33.1	34.0	41.6	49.2	51.0	45.9	45.1	43.2	34.9	33.1	35.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192591

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5	2051.5
2.5°	2050.6	2052.3	2053.2	2055.7	2056.6	2056.6	2057.5	2059.1
5°	2066.7	2069.3	2070.1	2073.5	2074.4	2073.5	2075.3	2076.2
7.5°	2095.6	2099.9	2101.6	2105.0	2102.3	2105.9	2106.6	2106.6
10°	2138.1	2142.3	2143.2	2146.6	2144.9	2146.6	2146.6	2144.9
12.5°	2194.2	2195.0	2192.4	2195.0	2191.6	2193.3	2190.7	2189.0
15°	2256.1	2253.6	2247.6	2247.6	2242.5	2243.4	2242.5	2241.7
17.5°	2316.4	2311.3	2307.0	2305.4	2301.1	2300.2	2297.7	2297.7
20°	2382.6	2380.1	2377.5	2374.1	2370.0	2365.7	2364.8	2366.4
22.5°	2462.4	2461.6	2461.6	2459.9	2454.0	2449.7	2447.2	2447.2
25°	2569.4	2561.8	2561.8	2560.9	2558.5	2555.9	2550.7	2553.3
27.5°	2690.0	2685.8	2689.2	2688.4	2685.8	2685.8	2682.5	2682.5
30°	2838.5	2836.9	2842.1	2837.8	2829.3	2828.4	2825.0	2820.7
32.5°	3010.1	3008.5	3016.1	3010.9	2997.4	2989.8	2983.0	2979.6
35°	3201.2	3202.1	3211.3	3208.0	3192.7	3187.6	3175.7	3174.0
37.5°	3410.1	3423.6	3439.8	3443.2	3430.4	3427.0	3414.4	3407.5
40°	3655.5	3673.3	3697.9	3703.9	3690.2	3687.7	3669.9	3660.5
42.5°	3917.0	3947.5	3978.1	3983.3	3969.6	3956.1	3939.1	3932.2
45°	4209.1	4245.6	4285.4	4295.7	4275.4	4259.2	4237.1	4237.1
47.5°	4536.9	4582.7	4627.6	4655.7	4637.1	4620.0	4593.7	4576.8
50°	4924.1	4986.9	5045.5	5074.3	5044.6	5012.4	4966.5	4951.2
52.5°	5409.8	5477.7	5528.6	5513.3	5467.5	5422.4	5372.4	5351.9
55°	6029.6	6052.5	6052.5	5994.8	5903.1	5827.6	5748.5	5722.2
57.5°	6804.8	6716.5	6580.6	6408.3	6191.8	6003.2	5876.0	5815.7
60°	7716.0	7291.4	6811.7	6340.5	5953.2	5634.0	5444.6	5358.0
62.5°	8323.1	7212.4	6251.3	5494.6	4937.7	4553.0	4291.4	4189.5
65°	7778.8	6015.2	4727.8	3822.8	3215.6	2824.2	2565.2	2470.2
67.5°	5697.6	3769.2	2517.7	1804.4	1322.0	1054.6	948.5	904.3
70°	2557.5	1327.2	813.4	635.2	547.7	502.7	483.2	476.4
72.5°	771.1	557.9	470.4	424.6	389.7	367.6	351.5	349.8
75°	465.3	387.3	343.9	316.8	294.7	276.9	268.3	265.8
77.5°	325.3	284.4	264.1	244.5	227.6	213.9	206.4	200.4
80°	228.5	208.9	199.5	188.5	177.4	164.8	153.7	148.6
82.5°	152.9	148.6	148.6	141.8	132.4	120.6	98.6	93.4
85°	98.6	97.7	99.3	96.8	90.0	77.2	63.7	60.3
87.5°	45.9	46.7	51.8	51.0	49.2	40.8	32.2	30.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)