

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: P267129

Luminaire Tested: **GAN-AF-08-LED-U-5WQ-7027-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-5WQ-7027-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28762.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 257
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

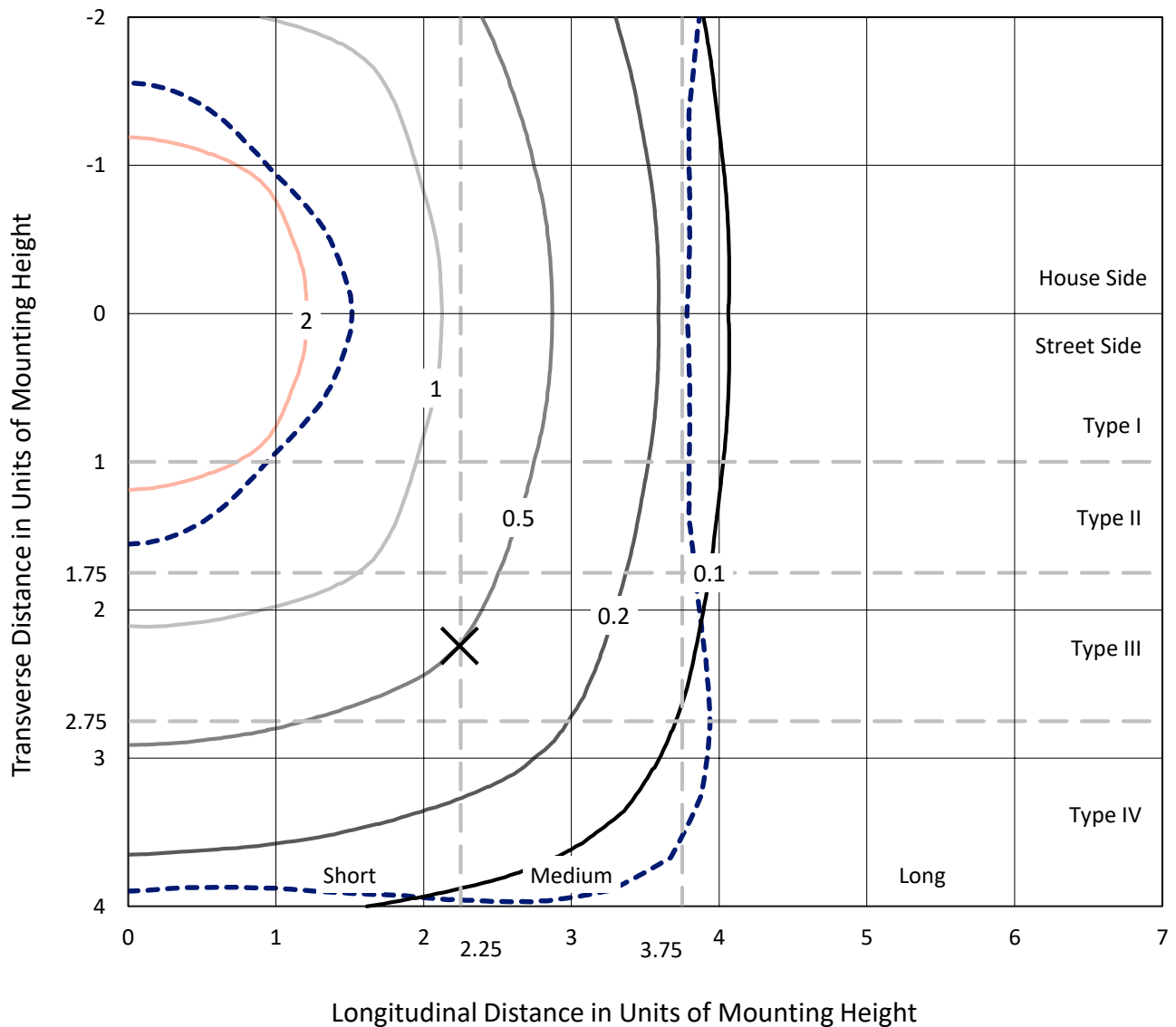


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

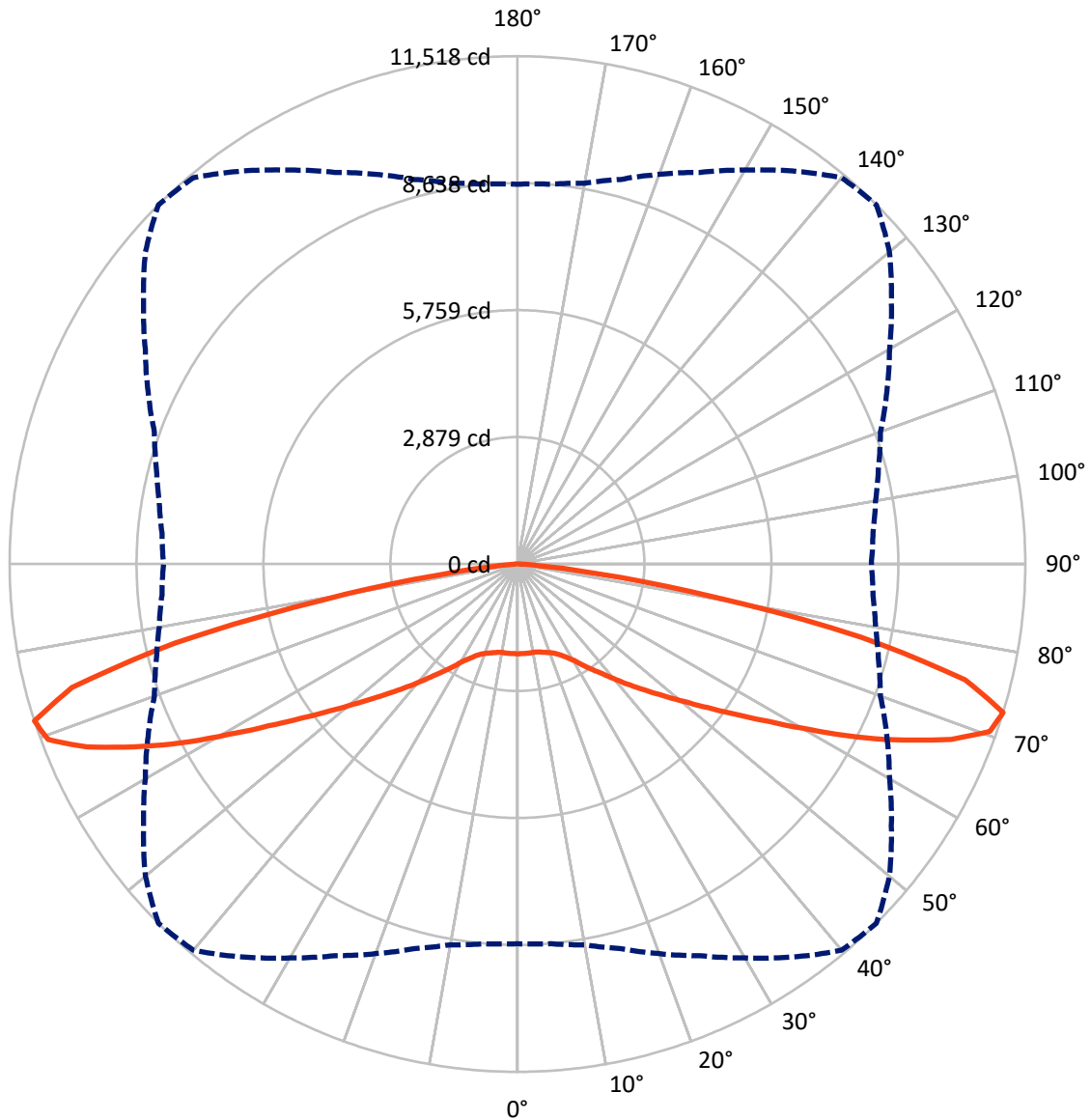


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14381.2	0.0	14381.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14381.2	0.0	14381.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28762.3	0.0	28762.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	0.7
10°-20°	590.7	2.1
20°-30°	1079.4	3.8
30°-40°	1861.2	6.5
40°-50°	3181.6	11.1
50°-60°	5157.0	17.9
60°-70°	8555.2	29.7
70°-80°	7535.2	26.2
80°-90°	607.6	2.1
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°	28762.3	100.0
0°-180°	28762.3	100.0



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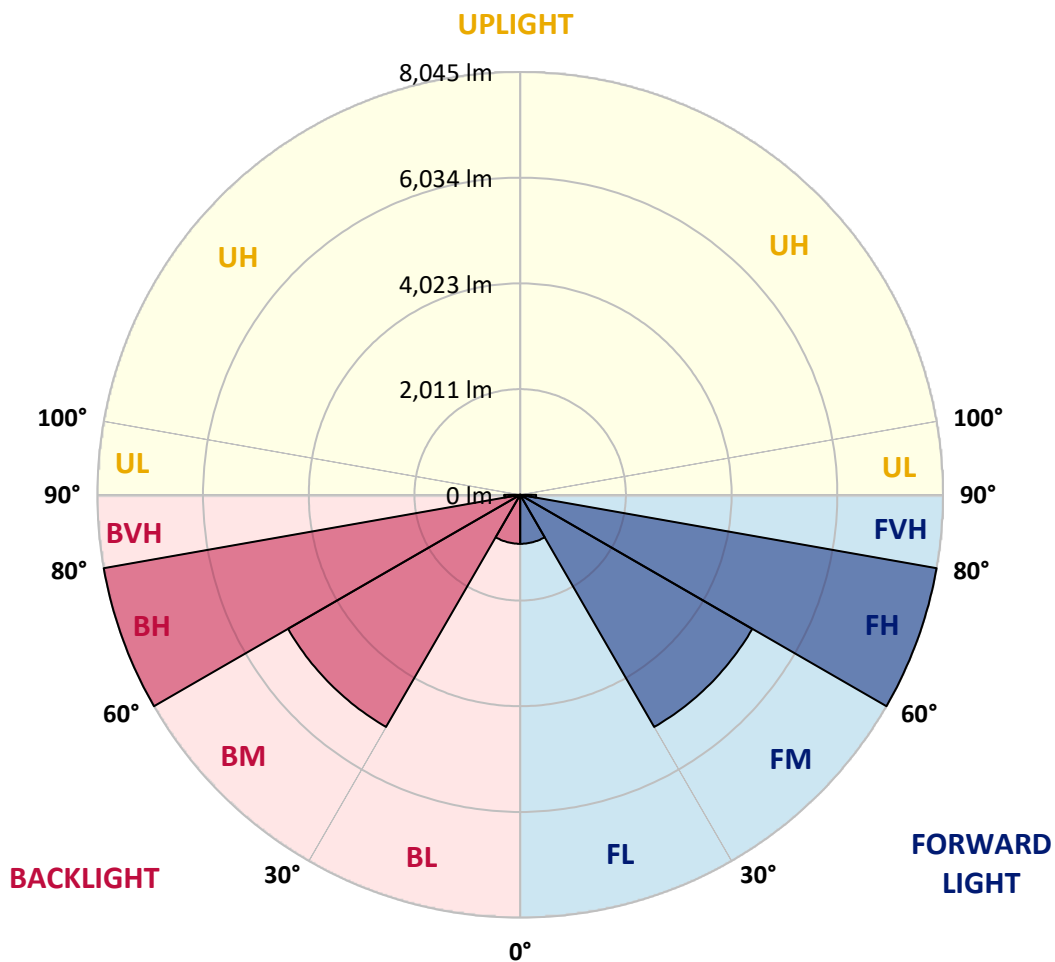
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.3	3.2			
FM	(30°-60°)	5099.9	17.7			
FH	(60°-80°)	8045.2	28.0			G4/12000
FVH	(80°-90°)	303.8	1.1			G3/500
BL	(0°-30°)	932.3	3.2	B2/1000		
BM	(30°-60°)	5099.9	17.7	B4/8500		
BH	(60°-80°)	8045.2	28.0	B5		G4/12000
BVH	(80°-90°)	303.8	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7
2.5°	2036.7	2038.2	2039.4	2038.2	2038.2	2036.7	2035.5	2036.7	2035.5	2032.9	2034.2
5°	2043.5	2046.1	2046.1	2043.5	2044.7	2043.5	2040.8	2042.0	2039.4	2035.5	2035.5
7.5°	2051.3	2052.6	2052.6	2050.0	2051.3	2048.7	2046.1	2044.7	2042.0	2036.7	2032.9
10°	2063.1	2064.6	2063.1	2060.5	2060.5	2056.6	2050.0	2047.3	2042.0	2034.2	2030.2
12.5°	2076.4	2077.7	2076.4	2073.7	2072.4	2065.8	2060.5	2056.6	2052.6	2046.1	2039.4
15°	2094.8	2097.5	2094.8	2089.5	2085.7	2080.4	2077.7	2079.0	2080.4	2075.1	2068.4
17.5°	2129.2	2130.5	2126.5	2114.6	2109.4	2104.1	2104.1	2106.7	2110.7	2108.1	2101.4
20°	2192.5	2188.5	2179.3	2164.7	2158.2	2148.9	2147.7	2148.9	2148.9	2147.7	2142.4
22.5°	2271.6	2268.9	2257.1	2238.7	2229.5	2224.2	2216.2	2209.7	2208.4	2204.4	2199.1
25°	2366.7	2365.2	2350.8	2335.0	2328.3	2321.8	2315.1	2305.9	2298.0	2288.8	2283.5
27.5°	2487.9	2482.6	2461.5	2453.7	2444.5	2440.4	2431.3	2420.8	2414.1	2402.2	2395.6
30°	2621.3	2621.3	2604.0	2601.4	2601.4	2592.1	2581.6	2563.1	2551.2	2539.4	2535.5
32.5°	2754.5	2755.8	2738.7	2744.0	2747.8	2754.5	2757.1	2750.5	2742.5	2741.3	2733.4
35°	2947.1	2941.8	2924.6	2928.6	2927.2	2926.0	2926.0	2940.4	2943.0	2945.7	2929.9
37.5°	3185.7	3185.7	3168.7	3168.7	3160.7	3152.8	3142.4	3151.6	3166.0	3169.9	3159.5
40°	3459.0	3468.1	3447.1	3445.7	3448.4	3423.4	3411.5	3426.0	3435.2	3451.0	3439.2
42.5°	3780.7	3774.1	3753.1	3750.5	3736.0	3728.1	3717.5	3729.4	3743.9	3754.3	3758.4
45°	4089.4	4084.2	4060.5	4060.5	4046.0	4039.4	4044.6	4064.4	4070.9	4085.5	4100.0
47.5°	4394.1	4387.6	4371.8	4378.3	4379.6	4391.5	4408.7	4427.1	4445.6	4465.5	4472.0
50°	4705.5	4706.8	4689.7	4705.5	4725.4	4758.3	4804.4	4834.8	4873.0	4898.1	4906.1
52.5°	4989.1	4994.4	5012.9	5049.8	5089.3	5154.0	5233.2	5307.0	5370.3	5412.6	5410.0
55°	5329.6	5337.4	5382.3	5445.5	5510.3	5607.8	5725.3	5855.8	5961.4	6022.1	5983.8
57.5°	5764.9	5782.0	5832.1	5917.9	6014.2	6140.9	6301.7	6498.2	6661.9	6743.7	6681.7
60°	6362.4	6372.9	6433.7	6528.6	6644.8	6801.6	7016.8	7280.6	7511.4	7619.7	7548.4
62.5°	7150.0	7169.7	7218.6	7314.9	7433.7	7611.7	7874.3	8204.0	8491.6	8642.0	8481.0
65°	8090.6	8153.8	8194.8	8292.3	8403.1	8591.7	8866.2	9219.8	9528.4	9627.3	9441.4
67.5°	9021.9	9077.4	9148.5	9260.6	9372.7	9585.2	9839.8	10182.7	10521.8	10611.5	10322.7
70°	9429.5	9461.2	9572.0	9725.1	9940.0	10190.7	10484.8	10870.1	11289.5	11363.4	10996.7
72.5°	8612.9	8644.6	8768.6	9028.4	9403.2	9801.5	10314.7	10880.6	11434.6	11517.8	11012.5
75°	6514.1	6462.6	6646.0	6990.3	7495.5	8051.0	8768.6	9580.0	10380.6	10484.8	9882.1
77.5°	3366.6	3360.0	3498.4	3926.0	4528.7	5160.7	5950.8	6867.6	7651.3	7967.8	7477.1
80°	948.5	959.0	1025.0	1237.3	1589.6	2046.1	2663.5	3522.3	4163.4	4490.4	4216.1
82.5°	372.0	401.1	426.1	465.7	511.9	579.0	773.0	1150.3	1543.5	1844.2	1510.5
85°	133.3	142.6	201.8	238.8	242.7	255.9	291.5	340.4	410.3	489.4	402.4
87.5°	50.1	55.4	64.7	106.9	105.6	96.3	117.4	122.7	92.3	84.4	104.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7	2036.7
2.5°	2031.5	2032.9	2032.9	2034.2	2035.5	2035.5	2038.2	2038.2
5°	2032.9	2032.9	2030.2	2031.5	2030.2	2030.2	2031.5	2031.5
7.5°	2030.2	2028.9	2026.2	2025.0	2022.4	2022.4	2022.4	2022.4
10°	2026.2	2025.0	2022.4	2020.9	2019.7	2019.7	2019.7	2019.7
12.5°	2036.7	2032.9	2030.2	2028.9	2028.9	2028.9	2028.9	2028.9
15°	2064.6	2055.3	2048.7	2048.7	2050.0	2052.6	2052.6	2055.3
17.5°	2098.8	2088.3	2081.6	2076.4	2079.0	2083.0	2085.7	2088.3
20°	2139.8	2134.5	2125.2	2119.9	2119.9	2125.2	2127.8	2129.2
22.5°	2196.4	2192.5	2188.5	2182.0	2182.0	2184.6	2189.9	2189.9
25°	2280.8	2278.2	2275.5	2270.3	2268.9	2268.9	2271.6	2274.2
27.5°	2386.3	2387.8	2385.1	2383.7	2379.8	2378.5	2382.5	2381.1
30°	2527.6	2534.2	2540.8	2535.5	2528.9	2525.0	2521.0	2515.7
32.5°	2718.8	2710.9	2705.7	2696.4	2684.6	2674.0	2666.1	2656.8
35°	2899.5	2886.3	2881.1	2888.9	2887.7	2881.1	2871.8	2863.9
37.5°	3121.3	3118.6	3121.3	3135.8	3133.1	3139.7	3121.3	3119.9
40°	3400.9	3403.5	3422.0	3439.2	3448.4	3457.5	3447.1	3436.5
42.5°	3725.5	3724.1	3730.7	3754.3	3770.2	3780.7	3758.4	3755.8
45°	4068.3	4059.1	4064.4	4084.2	4100.0	4111.9	4086.7	4086.7
47.5°	4445.6	4429.8	4412.7	4435.1	4444.4	4452.2	4432.4	4425.9
50°	4866.5	4833.5	4796.6	4805.8	4805.8	4803.1	4778.1	4776.7
52.5°	5349.2	5288.6	5221.3	5196.2	5181.8	5166.0	5122.3	5101.3
55°	5904.6	5813.7	5708.1	5643.4	5609.1	5565.5	5493.0	5473.4
57.5°	6553.8	6411.3	6229.1	6150.1	6073.5	6002.2	5921.7	5899.3
60°	7322.9	7113.0	6871.7	6725.3	6642.1	6573.4	6490.3	6486.4
62.5°	8180.2	7849.1	7576.0	7444.2	7383.4	7322.9	7243.7	7254.3
65°	9052.2	8706.6	8450.6	8343.8	8287.1	8237.0	8157.8	8169.6
67.5°	9912.3	9594.3	9313.4	9203.9	9140.7	9077.4	9006.0	9017.9
70°	10529.8	10135.2	9818.7	9575.9	9424.3	9252.7	9142.0	9114.3
72.5°	10353.0	9744.9	9242.2	8760.7	8478.5	8248.9	8093.2	8025.8
75°	8959.9	8128.9	7482.4	6891.3	6559.0	6288.6	6091.9	5969.2
77.5°	6653.9	5720.0	4956.2	4275.5	3737.3	3375.8	3121.3	2956.3
80°	3642.3	2770.4	2025.0	1423.5	1046.2	869.3	767.8	719.0
82.5°	1134.5	732.2	539.5	465.7	432.8	414.2	383.8	335.1
85°	361.5	316.7	294.1	281.0	267.8	233.5	160.9	146.5
87.5°	139.9	143.8	142.6	134.6	137.3	99.0	79.1	69.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)