

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: P268483

Luminaire Tested: **GAN-AF-05-LED-U-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268483
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-05-LED-U-5MQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21937.1 lumens
Efficiency: N/A
Efficacy: 104.5 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): 210
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

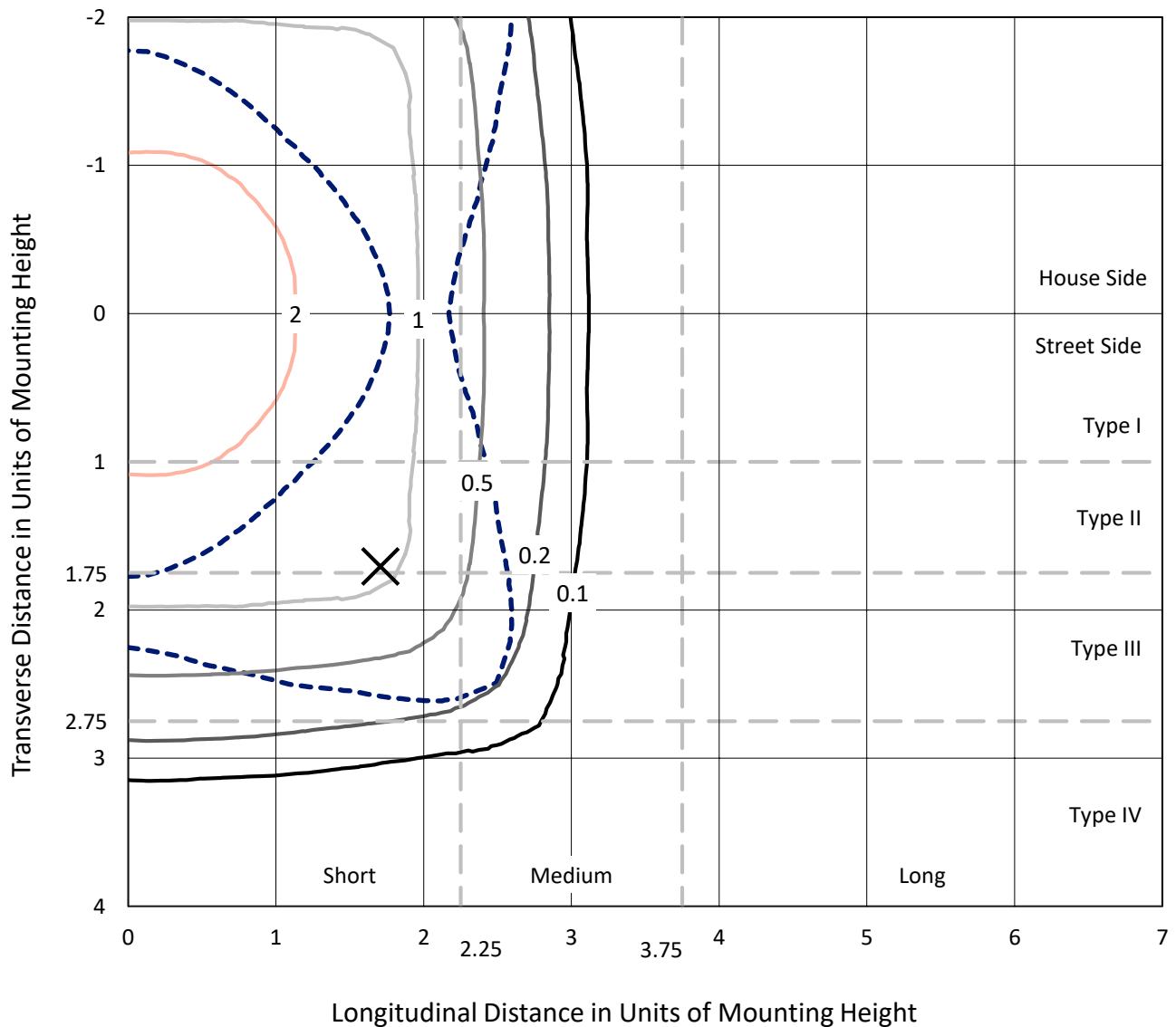


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

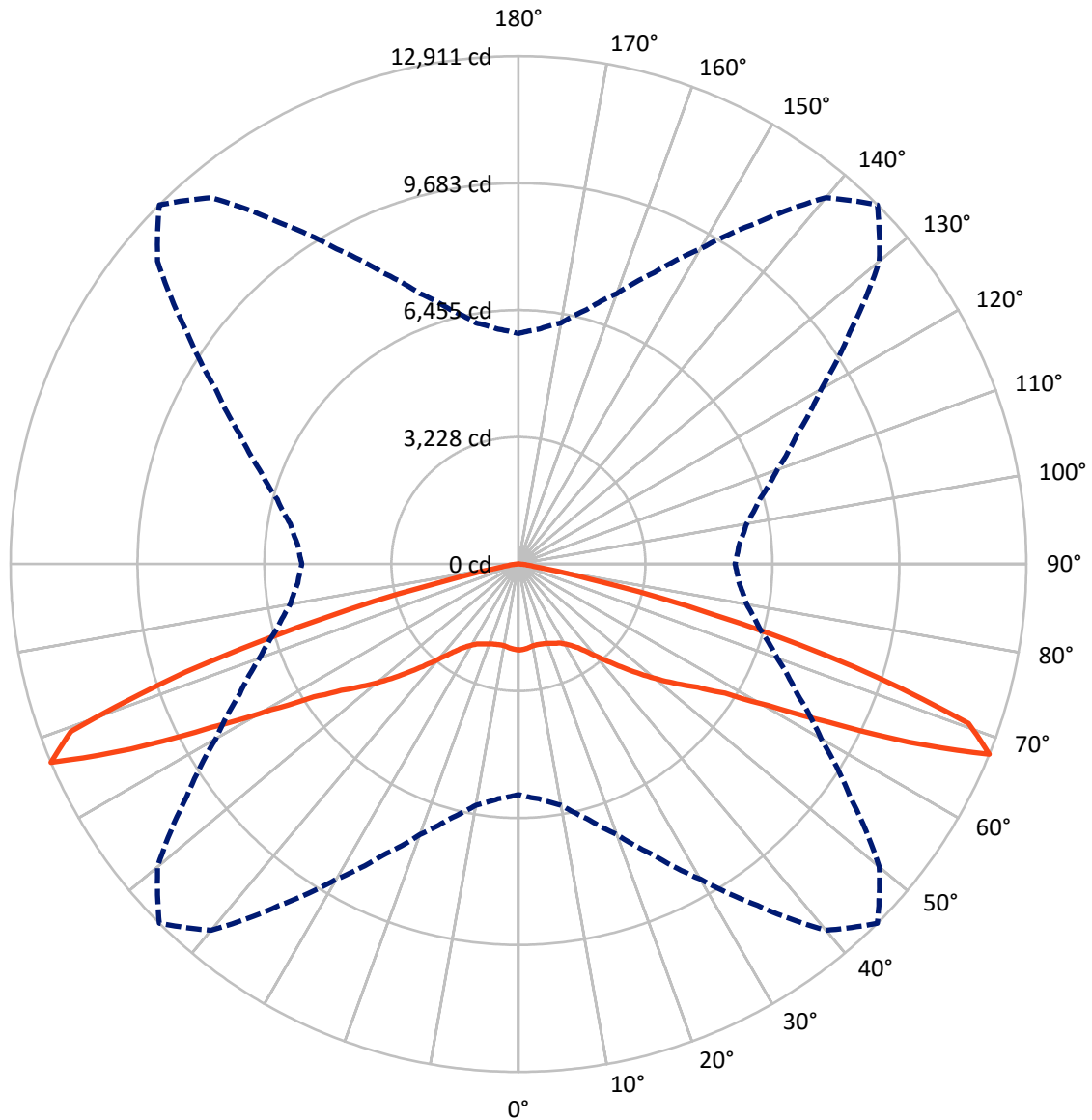


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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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	10968.5	0.0	10968.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10968.5	0.0	10968.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21937.1	0.0	21937.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	0.9
10°-20°	593.7	2.7
20°-30°	1009.4	4.6
30°-40°	1650.0	7.5
40°-50°	2945.5	13.4
50°-60°	4966.2	22.6
60°-70°	7706.8	35.1
70°-80°	2707.8	12.3
80°-90°	153.0	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°	21937.1	100.0
0°-180°	21937.1	100.0



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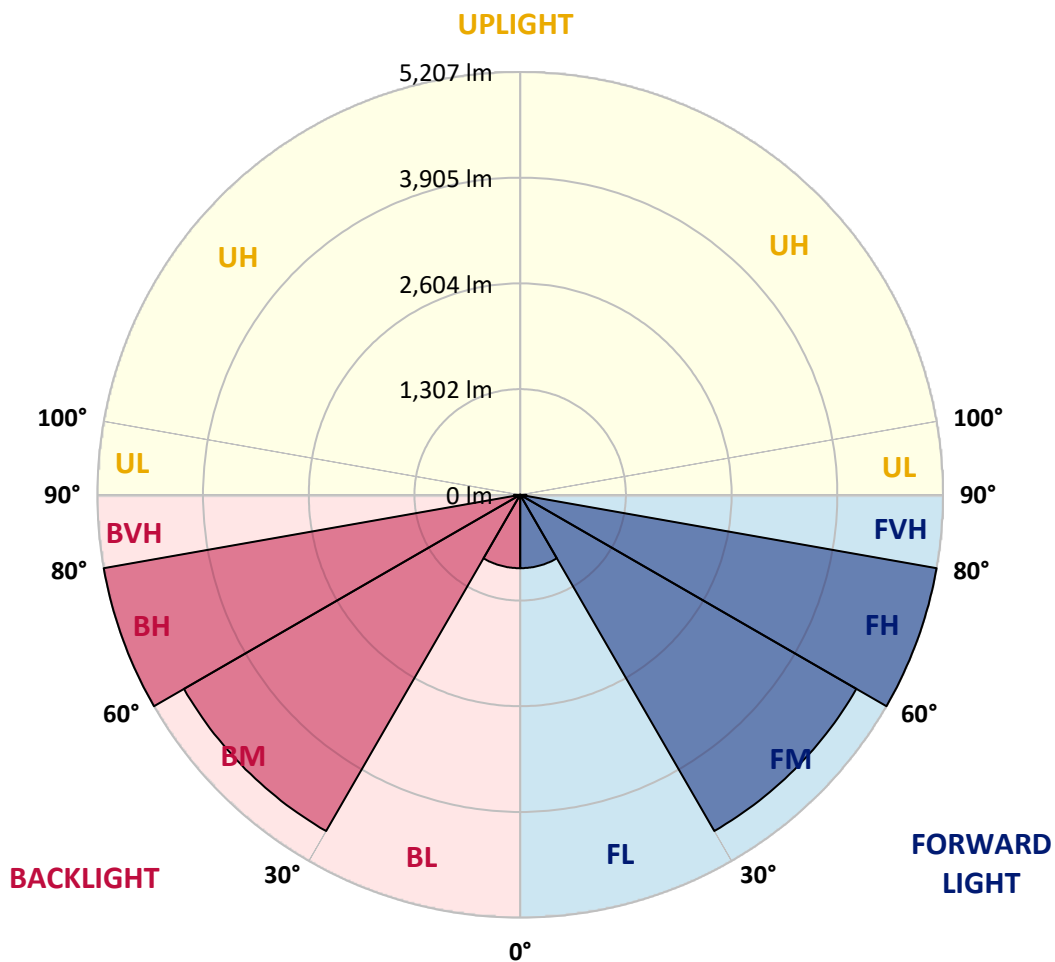
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.9	4.1			
FM	(30°-60°)	4780.8	21.8			
FH	(60°-80°)	5207.3	23.7			G3/7500
FVH	(80°-90°)	76.5	0.3			G1/100
BL	(0°-30°)	903.9	4.1	B2/1000		
BM	(30°-60°)	4780.8	21.8	B3/5000		
BH	(60°-80°)	5207.3	23.7	B5		G3/7500
BVH	(80°-90°)	76.5	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°	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1
2.5°	2178.0	2180.0	2180.0	2180.0	2179.1	2179.1	2177.0	2179.1	2178.0	2175.1	2176.1
5°	2159.9	2162.0	2162.0	2161.0	2163.9	2162.8	2159.9	2162.0	2161.0	2158.8	2159.9
7.5°	2133.7	2136.7	2136.7	2135.7	2138.8	2137.6	2135.7	2136.7	2136.7	2133.7	2133.7
10°	2104.4	2106.4	2106.4	2105.4	2110.5	2110.5	2109.5	2112.5	2113.5	2110.5	2108.4
12.5°	2077.2	2080.1	2080.1	2084.2	2089.3	2091.3	2096.4	2100.3	2104.4	2103.4	2099.3
15°	2061.0	2063.0	2067.1	2072.1	2080.1	2087.2	2095.3	2104.4	2112.5	2114.5	2108.4
17.5°	2050.9	2054.0	2060.1	2067.1	2078.1	2090.3	2102.5	2114.5	2125.6	2129.6	2122.5
20°	2048.0	2049.9	2056.0	2068.1	2083.2	2101.3	2118.6	2132.7	2147.8	2152.9	2147.8
22.5°	2054.0	2057.9	2065.1	2079.1	2099.3	2122.5	2142.7	2162.0	2181.1	2190.2	2183.2
25°	2081.3	2085.2	2094.3	2112.5	2134.7	2158.8	2182.2	2204.4	2221.4	2230.5	2225.6
27.5°	2131.7	2136.7	2147.8	2166.0	2190.2	2216.4	2241.6	2259.7	2273.9	2276.9	2270.8
30°	2207.3	2218.5	2231.5	2251.7	2280.0	2302.1	2327.4	2343.5	2360.7	2360.7	2355.6
32.5°	2325.4	2336.4	2350.5	2369.6	2391.9	2416.1	2438.3	2452.5	2470.6	2471.6	2459.5
35°	2501.9	2506.9	2519.0	2531.2	2551.4	2572.4	2591.7	2600.8	2615.9	2616.9	2605.9
37.5°	2734.9	2736.0	2744.1	2748.1	2766.2	2789.3	2807.6	2813.6	2827.8	2825.7	2814.6
40°	3006.3	3011.4	3014.4	3020.5	3039.5	3061.9	3080.9	3084.1	3099.2	3096.1	3081.9
42.5°	3320.0	3322.0	3339.2	3348.3	3366.5	3377.5	3401.7	3404.8	3422.9	3414.8	3398.7
45°	3672.1	3690.2	3706.4	3724.6	3743.7	3756.8	3776.0	3772.1	3784.1	3772.1	3762.9
47.5°	4042.4	4055.5	4091.8	4120.0	4151.2	4162.3	4189.6	4177.6	4189.6	4172.4	4169.5
50°	4449.9	4473.1	4504.5	4536.7	4569.9	4588.2	4623.4	4608.3	4624.5	4608.3	4599.2
52.5°	4851.4	4857.4	4926.0	4973.5	5019.9	5041.1	5062.3	5055.2	5056.2	5055.2	5046.1
55°	5232.7	5246.9	5315.5	5380.0	5460.7	5520.3	5556.6	5552.6	5543.5	5534.4	5519.2
57.5°	5662.6	5676.7	5755.4	5835.0	5926.8	6011.5	6085.2	6160.8	6190.1	6198.2	6164.9
60°	6243.6	6242.6	6347.6	6444.4	6575.6	6701.6	6863.1	7027.5	7216.2	7303.8	7187.9
62.5°	6834.8	6859.0	7010.4	7181.8	7452.2	7715.5	8013.2	8305.6	8604.2	8847.3	8589.1
65°	6764.1	6857.0	7082.0	7470.3	7969.8	8563.0	9204.6	9883.4	10496.9	10918.4	10445.4
67.5°	5862.2	5994.4	6223.5	6695.5	7320.0	8175.6	9252.9	10595.7	12156.4	12910.9	11975.8
70°	4249.2	4398.6	4638.6	5099.6	5718.0	6531.1	7701.3	9313.4	11379.5	12140.2	11110.1
72.5°	2114.5	2195.2	2343.5	2637.1	3105.3	3764.9	4826.2	6375.8	8203.9	8901.8	7960.6
75°	718.3	755.7	780.8	876.7	1025.0	1284.2	1811.8	2787.4	4252.1	5097.6	4191.8
77.5°	414.7	415.6	432.9	450.0	475.2	503.4	574.0	753.6	1303.4	1851.1	1348.7
80°	268.4	267.3	281.4	294.6	311.7	325.8	329.9	349.0	402.5	477.2	426.8
82.5°	139.1	156.3	187.7	204.9	237.1	243.1	235.0	228.0	241.1	250.2	256.2
85°	76.6	66.6	99.9	129.1	143.3	145.3	145.3	137.3	142.2	139.1	151.4
87.5°	35.4	32.2	39.3	63.6	67.6	57.5	60.5	53.4	38.4	37.3	42.4
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°	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1
2.5°	2176.1	2177.0	2177.0	2180.0	2181.1	2183.2	2185.0	2186.1
5°	2158.8	2162.0	2159.9	2162.8	2162.8	2164.9	2164.9	2166.0
7.5°	2133.7	2136.7	2136.7	2136.7	2135.7	2138.8	2138.8	2138.8
10°	2107.5	2109.5	2108.4	2106.4	2104.4	2107.5	2106.4	2105.4
12.5°	2099.3	2094.3	2090.3	2088.3	2084.2	2085.2	2082.2	2082.2
15°	2104.4	2095.3	2088.3	2085.2	2081.3	2079.1	2077.2	2078.1
17.5°	2117.6	2106.4	2097.4	2092.3	2087.2	2084.2	2080.1	2081.3
20°	2140.8	2127.6	2114.5	2104.4	2095.3	2090.3	2087.2	2086.3
22.5°	2175.1	2155.8	2136.7	2121.5	2109.5	2102.5	2099.3	2097.4
25°	2214.4	2193.2	2171.1	2153.9	2141.6	2132.7	2126.6	2126.6
27.5°	2263.8	2246.7	2226.4	2206.2	2195.2	2186.1	2182.2	2180.0
30°	2346.6	2330.5	2314.3	2295.1	2280.9	2271.9	2264.7	2258.8
32.5°	2452.5	2439.3	2426.2	2412.0	2399.0	2386.8	2375.7	2370.7
35°	2601.8	2591.7	2582.5	2566.5	2561.3	2554.3	2548.3	2543.2
37.5°	2807.6	2803.5	2803.5	2786.4	2782.3	2779.4	2773.2	2774.2
40°	3078.0	3081.9	3077.0	3070.9	3067.8	3059.7	3059.7	3066.9
42.5°	3397.7	3400.8	3411.9	3401.7	3412.8	3402.8	3396.8	3401.7
45°	3769.0	3780.1	3802.3	3792.1	3799.2	3782.0	3760.9	3761.9
47.5°	4185.7	4195.8	4204.7	4197.7	4198.8	4170.6	4142.3	4135.2
50°	4618.4	4622.5	4627.4	4617.4	4619.4	4588.2	4555.8	4556.8
52.5°	5046.1	5065.4	5085.5	5058.3	5052.2	5016.9	4971.5	4953.3
55°	5535.4	5562.7	5539.5	5492.1	5444.6	5397.1	5337.6	5327.6
57.5°	6138.7	6092.2	6019.6	5929.9	5864.2	5797.8	5737.1	5712.0
60°	6978.0	6803.6	6672.4	6539.2	6455.5	6373.7	6294.1	6281.9
62.5°	8164.4	7862.8	7601.5	7326.0	7101.1	6925.7	6785.3	6746.0
65°	9651.4	8938.1	8319.8	7742.8	7241.3	6863.1	6625.0	6520.1
67.5°	10291.1	8882.7	7822.4	7003.2	6347.6	5889.5	5632.3	5504.2
70°	9043.1	7366.5	6213.3	5393.2	4796.0	4307.7	4074.6	3937.5
72.5°	6221.4	4686.0	3705.4	3024.5	2547.2	2138.8	1977.3	1965.2
75°	2793.4	1850.1	1275.1	982.6	827.2	719.4	685.9	660.8
77.5°	781.9	578.1	515.4	482.2	450.0	412.6	398.5	401.5
80°	380.3	359.1	344.9	323.7	294.6	263.4	249.2	255.2
82.5°	252.2	249.2	258.3	243.1	200.7	170.5	143.3	131.2
85°	153.3	155.3	158.5	159.4	135.1	94.9	64.6	72.7
87.5°	60.5	69.6	75.6	78.7	73.7	45.5	36.3	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)