

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: P192733

Luminaire Tested: **GAN-AF-05-LED-U-RW-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19378.2 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 162
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

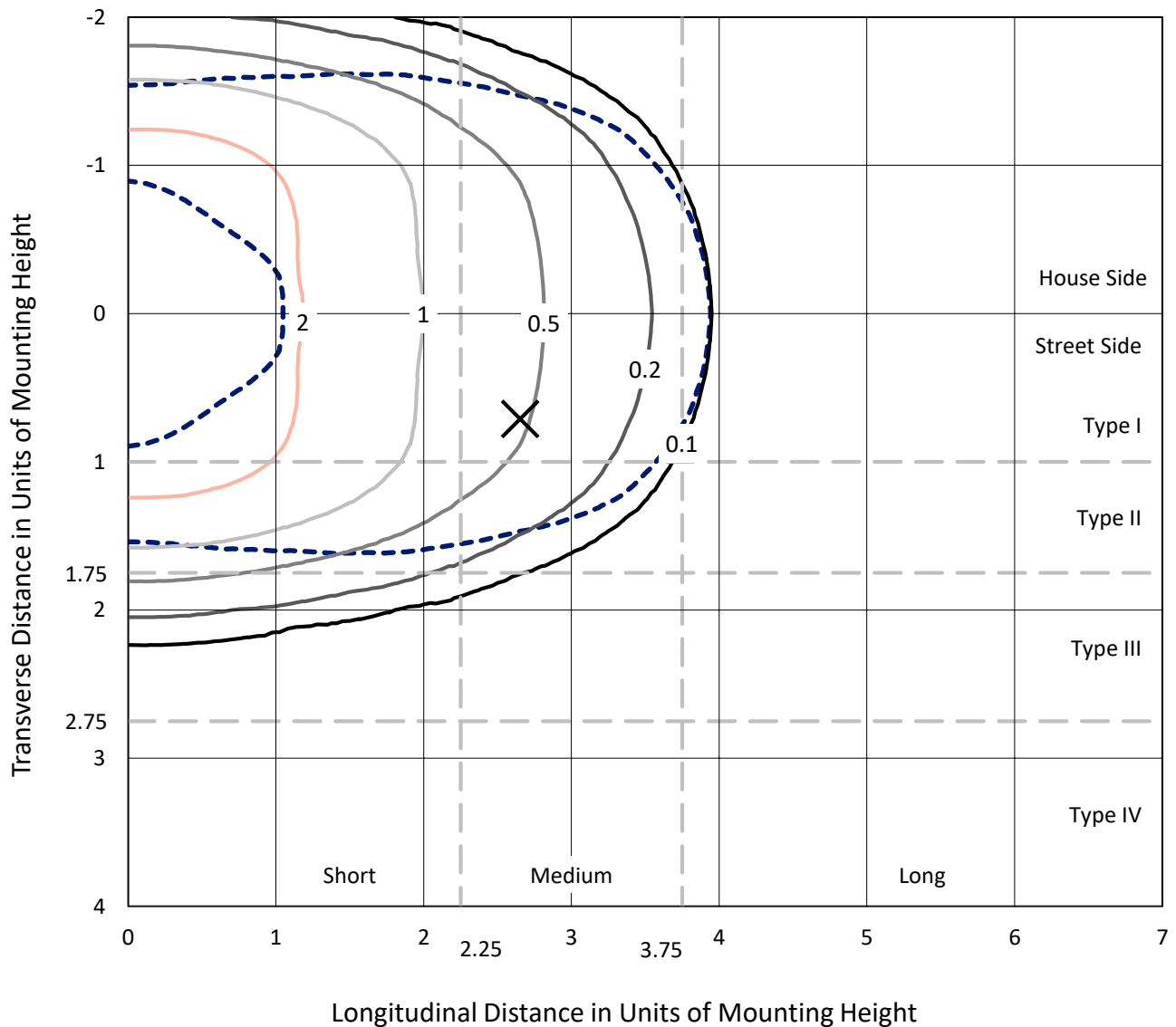


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

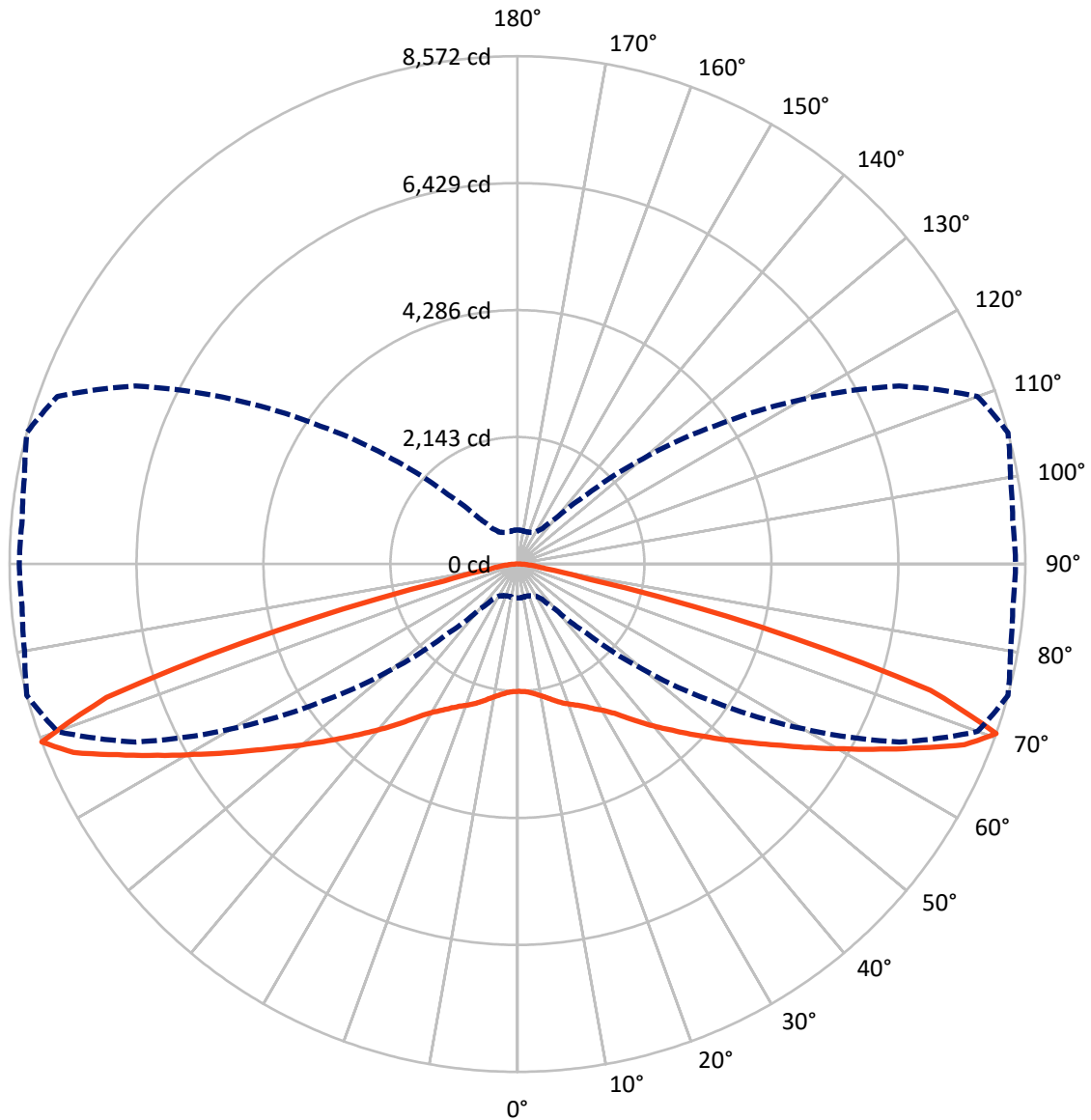


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9689.1	0.0	9689.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9689.1	0.0	9689.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	19378.2	0.0	19378.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.2	1.1
10°-20°	640.6	3.3
20°-30°	1205.6	6.2
30°-40°	2134.9	11.0
40°-50°	3570.3	18.4
50°-60°	4975.2	25.7
60°-70°	4613.6	23.8
70°-80°	1838.7	9.5
80°-90°	193.3	1.0
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°	19378.2	100.0
0°-180°	19378.2	100.0



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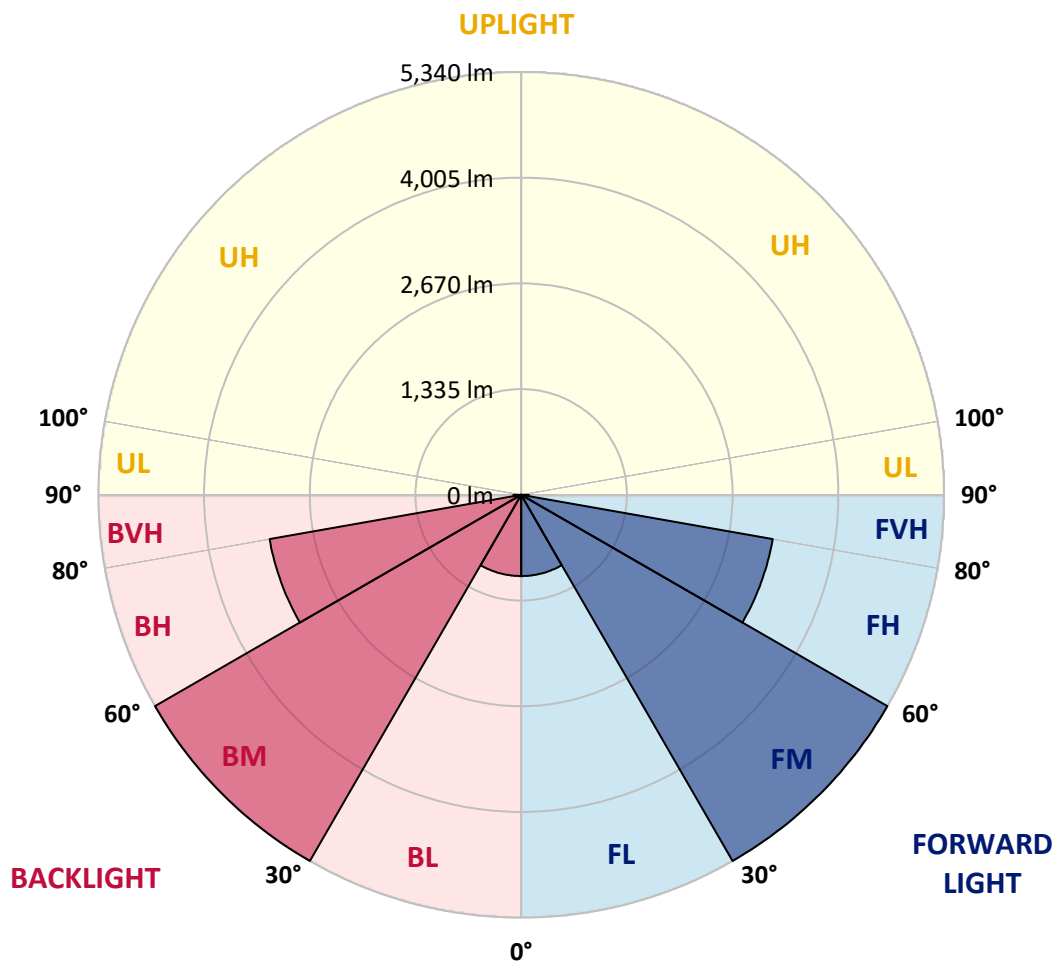
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1026.2	5.3			
FM	(30°-60°)	5340.2	27.6			
FH	(60°-80°)	3226.2	16.6			G2/5000
FVH	(80°-90°)	96.6	0.5			G1/100
BL	(0°-30°)	1026.2	5.3	B3/2500		
BM	(30°-60°)	5340.2	27.6	B4/8500		
BH	(60°-80°)	3226.2	16.6	B4/5000		G2/5000
BVH	(80°-90°)	96.6	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2145.9	2144.0	2145.9	2144.9	2146.7	2146.7	2148.6	2152.3	2152.3	2155.0	2154.0
5°	2124.8	2123.9	2126.6	2129.4	2132.0	2137.5	2143.1	2151.4	2157.8	2162.3	2166.9
7.5°	2083.6	2083.6	2087.2	2093.6	2100.1	2112.0	2124.8	2141.3	2157.8	2171.5	2183.4
10°	2049.7	2051.5	2056.0	2067.0	2078.1	2096.3	2113.7	2137.5	2160.5	2183.4	2201.7
12.5°	2029.5	2032.2	2040.5	2057.1	2075.3	2100.1	2126.6	2156.8	2182.5	2210.0	2228.3
15°	2035.9	2037.8	2049.7	2069.8	2093.6	2124.8	2160.5	2196.2	2226.3	2255.7	2280.5
17.5°	2071.7	2074.4	2088.2	2111.0	2135.8	2172.4	2210.9	2251.2	2288.7	2321.6	2352.0
20°	2135.8	2138.5	2155.9	2180.6	2210.0	2247.5	2285.9	2328.1	2370.3	2405.1	2438.8
22.5°	2226.3	2231.0	2247.5	2272.3	2305.2	2345.5	2391.2	2436.2	2476.5	2508.5	2538.7
25°	2345.5	2355.5	2371.2	2398.6	2433.4	2470.1	2519.5	2565.3	2603.7	2634.0	2656.0
27.5°	2514.0	2527.7	2539.6	2566.2	2600.1	2634.9	2684.4	2724.6	2761.3	2790.6	2807.1
30°	2737.5	2751.2	2763.1	2788.8	2819.9	2852.9	2899.5	2935.2	2958.2	2981.1	2980.1
32.5°	3008.6	3023.2	3027.8	3055.2	3087.3	3123.0	3165.1	3185.4	3203.6	3206.4	3190.0
35°	3311.7	3319.1	3337.4	3374.0	3410.6	3439.9	3480.2	3490.3	3490.3	3476.5	3439.9
37.5°	3644.2	3648.7	3674.4	3715.6	3753.2	3783.3	3810.9	3830.9	3820.9	3791.7	3730.2
40°	4008.7	4016.9	4053.5	4090.2	4132.3	4160.7	4190.0	4193.7	4183.6	4140.6	4057.3
42.5°	4356.7	4364.1	4400.6	4458.4	4513.3	4552.8	4580.1	4585.6	4553.6	4514.3	4410.7
45°	4656.2	4675.4	4723.1	4790.8	4870.4	4926.4	4963.8	4979.5	4951.1	4899.8	4779.8
47.5°	4893.4	4912.7	4980.4	5061.0	5159.9	5250.6	5312.8	5345.8	5338.5	5300.0	5169.0
50°	5067.3	5085.7	5159.0	5257.9	5373.3	5485.9	5592.2	5670.9	5698.4	5681.1	5561.1
52.5°	5087.5	5117.8	5203.8	5336.7	5486.9	5640.7	5791.9	5925.5	6016.3	6029.9	5941.1
55°	4806.5	4836.6	4955.7	5152.5	5376.0	5627.0	5868.8	6094.1	6272.7	6364.3	6317.5
57.5°	4143.3	4197.3	4322.9	4553.6	4882.4	5257.9	5643.5	6043.6	6407.3	6649.9	6696.7
60°	3175.3	3239.3	3365.7	3611.2	3977.6	4425.3	4940.0	5531.7	6173.7	6719.6	7045.6
62.5°	2036.8	2097.3	2230.1	2443.5	2742.1	3227.4	3779.8	4482.2	5344.9	6206.7	6983.3
65°	1046.8	1079.8	1149.4	1278.6	1511.2	1873.8	2369.3	3069.9	4056.2	5119.6	6242.4
67.5°	663.1	669.4	685.0	703.4	762.8	888.4	1119.2	1556.1	2367.4	3476.5	4790.8
70°	573.3	573.3	566.0	563.2	570.6	588.0	623.7	725.4	999.1	1650.4	2763.1
72.5°	524.8	519.3	506.4	496.4	494.5	494.5	501.9	517.5	561.4	672.3	1081.6
75°	483.6	467.9	450.5	438.6	434.1	429.5	428.7	431.3	440.6	457.9	516.6
77.5°	433.2	413.0	392.9	381.0	375.6	369.1	363.7	357.2	352.6	358.1	383.7
80°	372.8	349.8	334.4	326.9	321.4	312.3	300.4	289.4	279.3	277.5	293.1
82.5°	300.4	273.8	274.8	277.5	267.4	254.6	241.8	229.9	212.5	203.3	212.5
85°	242.7	229.0	222.6	240.0	225.3	206.1	186.0	164.9	137.3	115.4	125.4
87.5°	94.3	94.3	141.1	217.1	195.0	159.4	136.5	116.4	72.3	55.8	56.9
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°	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2153.2	2155.0	2154.0	2153.2	2153.2	2152.3	2153.2	2153.2
5°	2169.7	2174.3	2174.3	2176.0	2176.0	2177.0	2177.9	2177.0
7.5°	2194.4	2202.6	2208.1	2214.5	2215.4	2216.4	2218.2	2216.4
10°	2219.0	2235.6	2247.5	2259.4	2265.0	2266.7	2268.5	2268.5
12.5°	2250.2	2273.1	2294.2	2315.3	2325.4	2330.8	2330.8	2334.6
15°	2301.5	2324.4	2349.2	2377.6	2395.0	2404.1	2406.9	2406.9
17.5°	2373.8	2394.0	2415.0	2442.6	2464.6	2476.5	2479.2	2478.3
20°	2458.2	2477.4	2489.3	2506.6	2525.8	2539.6	2543.3	2543.3
22.5°	2554.3	2565.3	2567.1	2572.6	2588.2	2606.5	2614.8	2616.5
25°	2660.6	2663.3	2656.0	2656.0	2666.0	2683.4	2691.7	2692.5
27.5°	2797.9	2784.2	2765.9	2759.5	2765.9	2786.0	2796.1	2799.8
30°	2969.2	2936.3	2894.1	2871.3	2867.5	2894.1	2912.5	2915.1
32.5°	3165.1	3117.5	3061.7	3015.0	3003.1	3019.6	3041.6	3040.5
35°	3397.8	3341.0	3273.2	3213.8	3186.2	3202.7	3233.8	3237.6
37.5°	3666.2	3592.0	3514.1	3439.1	3396.0	3400.5	3433.5	3444.5
40°	3965.7	3869.4	3771.4	3670.7	3609.4	3597.5	3637.8	3644.2
42.5°	4286.1	4162.6	4038.9	3914.3	3835.5	3817.3	3864.0	3861.2
45°	4627.7	4470.3	4325.6	4188.1	4094.7	4067.2	4105.8	4105.8
47.5°	4995.0	4800.9	4628.7	4473.0	4371.4	4331.9	4368.6	4371.4
50°	5384.3	5178.3	4975.7	4802.7	4680.8	4630.5	4678.2	4685.5
52.5°	5771.7	5571.1	5367.0	5169.0	5021.5	4960.3	5015.2	5039.0
55°	6164.6	5967.6	5772.6	5579.4	5404.4	5332.1	5390.7	5420.9
57.5°	6579.5	6397.2	6211.3	6016.3	5847.7	5735.0	5797.3	5837.6
60°	7065.8	6910.1	6716.8	6501.6	6331.2	6216.8	6252.5	6288.2
62.5°	7450.4	7510.9	7346.9	7097.8	6879.0	6732.4	6767.2	6804.7
65°	7264.5	7884.5	8030.1	7778.2	7475.2	7247.0	7232.4	7251.6
67.5°	6072.1	7276.4	8154.7	8394.7	8141.0	7824.0	7765.5	7793.9
70°	4061.8	5562.0	7111.5	8265.6	8572.4	8449.6	8391.8	8409.3
72.5°	1950.8	3239.3	4824.7	6358.8	7292.9	7721.6	7858.9	7925.7
75°	713.5	1285.9	2325.4	3504.1	4230.3	4897.0	5332.1	5509.7
77.5°	430.5	519.3	742.8	1118.3	1266.7	1417.7	1359.0	1388.4
80°	318.7	359.9	407.5	457.9	474.4	474.4	456.0	441.4
82.5°	223.4	249.9	272.9	300.4	307.7	294.0	241.8	192.3
85°	143.7	155.7	165.7	183.1	178.6	170.3	114.5	101.6
87.5°	66.0	75.1	78.7	87.0	83.4	79.6	56.9	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)