

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: P192751

Luminaire Tested: **GAN-AF-03-LED-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192751
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-03-LED-U-RW-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17965.5 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - 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

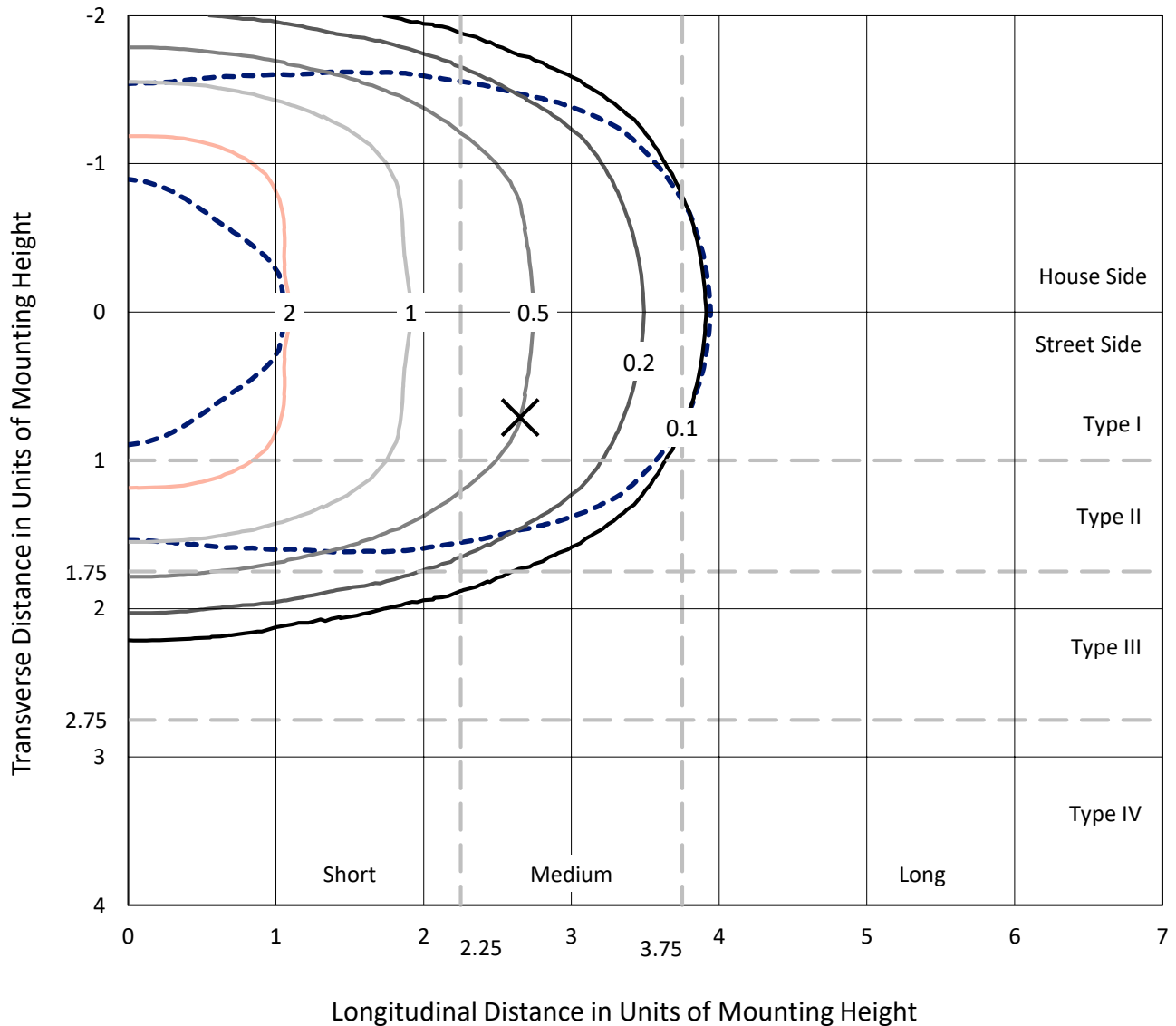


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Iso-Footcandle Lines of Horizontal Illumination

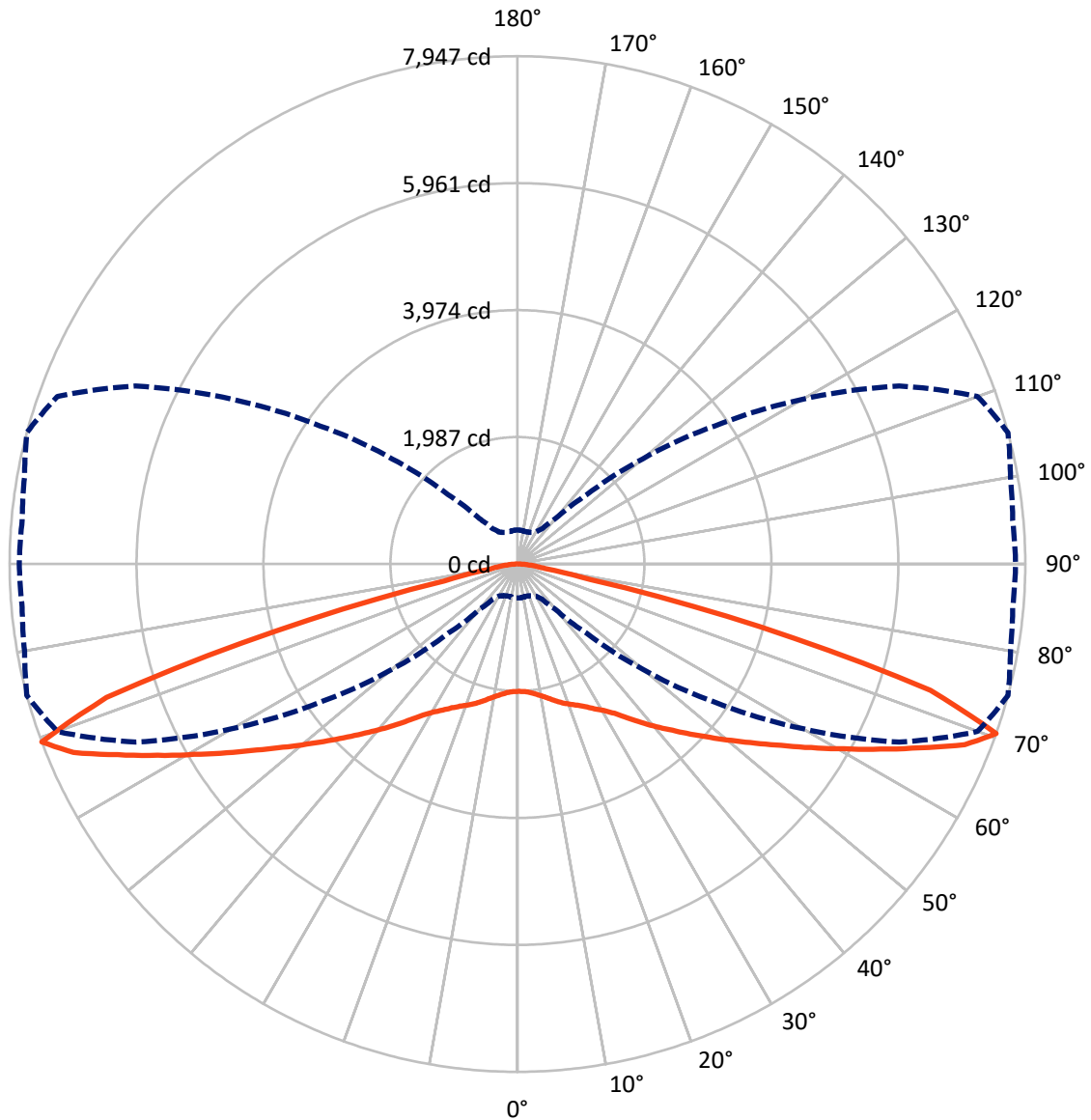
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	8982.7	0.0	8982.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8982.7	0.0	8982.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	17965.5	0.0	17965.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	1.1
10°-20°	593.9	3.3
20°-30°	1117.7	6.2
30°-40°	1979.3	11.0
40°-50°	3310.0	18.4
50°-60°	4612.4	25.7
60°-70°	4277.3	23.8
70°-80°	1704.6	9.5
80°-90°	179.2	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°	17965.5	100.0
0°-180°	17965.5	100.0



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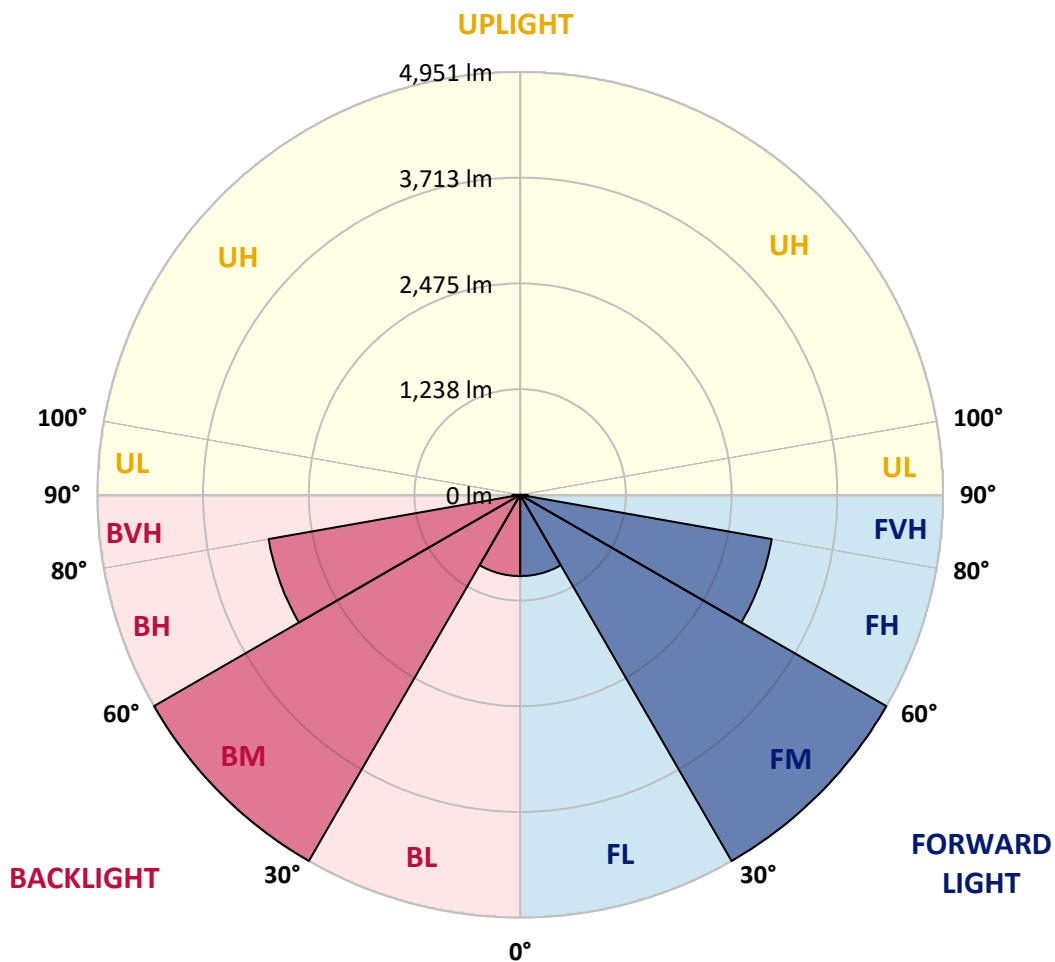
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	951.3	5.3			
FM	(30°-60°)	4950.8	27.6			
FH	(60°-80°)	2991.0	16.6			G2/5000
FVH	(80°-90°)	89.6	0.5			G1/100
BL	(0°-30°)	951.3	5.3	B2/1000		
BM	(30°-60°)	4950.8	27.6	B3/5000		
BH	(60°-80°)	2991.0	16.6	B4/5000		G2/5000
BVH	(80°-90°)	89.6	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°	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8
2.5°	1989.4	1987.7	1989.4	1988.5	1990.2	1990.2	1991.9	1995.3	1995.3	1998.0	1997.0
5°	1969.8	1969.1	1971.6	1974.1	1976.6	1981.8	1986.9	1994.5	2000.4	2004.7	2009.0
7.5°	1931.7	1931.7	1935.1	1941.0	1946.9	1957.9	1969.8	1985.1	2000.4	2013.2	2024.2
10°	1900.2	1901.9	1906.1	1916.4	1926.6	1943.5	1959.7	1981.8	2002.9	2024.2	2041.2
12.5°	1881.6	1884.0	1891.8	1907.0	1924.0	1946.9	1971.6	1999.6	2023.4	2048.8	2065.8
15°	1887.5	1889.2	1900.2	1918.9	1941.0	1969.8	2002.9	2036.0	2064.1	2091.3	2114.1
17.5°	1920.7	1923.2	1935.8	1957.2	1980.1	2013.9	2049.7	2087.1	2121.9	2152.4	2180.5
20°	1980.1	1982.6	1998.8	2021.7	2048.8	2083.7	2119.3	2158.4	2197.4	2229.7	2261.1
22.5°	2064.1	2068.4	2083.7	2106.5	2137.1	2174.5	2217.0	2258.6	2295.9	2325.6	2353.7
25°	2174.5	2183.9	2198.3	2223.8	2255.9	2290.0	2335.9	2378.2	2414.0	2442.0	2462.3
27.5°	2330.7	2343.5	2354.5	2379.1	2410.6	2442.8	2488.7	2526.0	2560.0	2587.2	2602.4
30°	2537.9	2550.6	2561.7	2585.4	2614.3	2644.8	2688.3	2721.3	2742.5	2763.7	2762.9
32.5°	2789.3	2802.8	2807.1	2832.5	2862.3	2895.4	2934.3	2953.1	2970.1	2972.6	2957.3
35°	3070.3	3077.1	3094.0	3128.0	3162.0	3189.2	3226.5	3235.8	3235.8	3223.1	3189.2
37.5°	3378.6	3382.7	3406.4	3444.7	3479.6	3507.6	3533.0	3551.7	3542.4	3515.2	3458.3
40°	3716.5	3724.1	3758.1	3792.0	3831.0	3857.4	3884.5	3888.0	3878.6	3838.8	3761.5
42.5°	4039.1	4045.9	4079.8	4133.3	4184.3	4220.8	4246.3	4251.4	4221.7	4185.0	4089.1
45°	4316.8	4334.6	4378.7	4441.5	4515.3	4567.2	4602.0	4616.4	4590.1	4542.6	4431.3
47.5°	4536.7	4554.5	4617.3	4692.0	4783.7	4867.8	4925.5	4956.1	4949.3	4913.6	4792.2
50°	4697.9	4715.0	4782.9	4874.6	4981.5	5086.0	5184.5	5257.5	5283.0	5266.9	5155.6
52.5°	4716.6	4744.7	4824.5	4947.6	5086.9	5229.4	5369.5	5493.5	5577.5	5590.4	5508.0
55°	4456.0	4484.0	4594.4	4777.0	4984.1	5216.8	5440.9	5649.8	5815.4	5900.2	5857.0
57.5°	3841.2	3891.4	4007.6	4221.7	4526.5	4874.6	5232.0	5603.1	5940.2	6165.2	6208.4
60°	2943.8	3003.2	3120.3	3347.9	3687.6	4102.8	4579.9	5128.4	5723.6	6229.8	6531.9
62.5°	1888.3	1944.4	2067.5	2265.4	2542.1	2992.2	3504.2	4155.3	4955.2	5754.2	6474.2
65°	970.6	1001.1	1065.6	1185.4	1401.0	1737.2	2196.5	2846.1	3760.6	4746.3	5787.4
67.5°	614.7	620.7	635.2	652.1	707.2	823.6	1037.5	1442.5	2194.9	3223.1	4441.5
70°	531.5	531.5	524.8	522.1	529.0	545.1	578.2	672.5	926.3	1530.0	2561.7
72.5°	486.5	481.4	469.6	460.2	458.5	458.5	465.3	479.7	520.5	623.3	1002.8
75°	448.3	433.9	417.7	406.7	402.5	398.2	397.3	399.9	408.4	424.6	478.9
77.5°	401.6	383.0	364.3	353.2	348.1	342.2	337.1	331.2	326.9	332.0	355.7
80°	345.6	324.4	310.0	303.0	298.1	289.5	278.5	268.3	259.0	257.3	271.7
82.5°	278.5	253.9	254.7	257.3	247.9	236.0	224.2	213.2	197.0	188.5	197.0
85°	225.0	212.3	206.3	222.5	208.9	191.1	172.4	152.9	127.4	107.0	116.4
87.5°	87.4	87.4	130.8	201.2	180.9	147.7	126.5	107.8	67.0	51.8	52.7
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°	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8	1992.8
2.5°	1996.1	1998.0	1997.0	1996.1	1996.1	1995.3	1996.1	1996.1
5°	2011.5	2015.8	2015.8	2017.4	2017.4	2018.2	2019.1	2018.2
7.5°	2034.4	2042.0	2047.1	2053.1	2054.0	2054.7	2056.5	2054.7
10°	2057.4	2072.6	2083.7	2094.7	2099.8	2101.5	2103.1	2103.1
12.5°	2086.2	2107.4	2127.0	2146.5	2155.8	2160.9	2160.9	2164.3
15°	2133.8	2154.9	2177.9	2204.2	2220.3	2228.9	2231.4	2231.4
17.5°	2200.8	2219.5	2239.0	2264.5	2284.8	2295.9	2298.5	2297.6
20°	2278.9	2296.7	2307.8	2324.0	2341.8	2354.5	2358.0	2358.0
22.5°	2368.0	2378.2	2380.0	2385.0	2399.6	2416.5	2424.1	2425.8
25°	2466.5	2469.2	2462.3	2462.3	2471.7	2487.9	2495.5	2496.2
27.5°	2594.0	2581.2	2564.2	2558.3	2564.2	2582.9	2592.2	2595.7
30°	2752.7	2722.2	2683.1	2661.9	2658.5	2683.1	2700.2	2702.6
32.5°	2934.3	2890.2	2838.4	2795.2	2784.2	2799.4	2819.8	2819.0
35°	3150.1	3097.5	3034.5	2979.4	2954.0	2969.2	2998.1	3001.5
37.5°	3398.8	3330.1	3257.9	3188.3	3148.5	3152.6	3183.2	3193.4
40°	3676.6	3587.4	3496.6	3403.1	3346.2	3335.1	3372.5	3378.6
42.5°	3973.6	3859.0	3744.5	3628.9	3556.0	3539.0	3582.3	3579.8
45°	4290.4	4144.3	4010.3	3882.8	3796.2	3770.7	3806.5	3806.5
47.5°	4630.9	4450.9	4291.2	4146.9	4052.7	4016.2	4050.1	4052.7
50°	4991.7	4800.8	4613.0	4452.6	4339.7	4292.9	4337.1	4343.9
52.5°	5350.9	5165.0	4975.6	4792.2	4655.5	4598.6	4649.5	4671.6
55°	5715.2	5532.6	5351.7	5172.6	5010.4	4943.3	4997.7	5025.7
57.5°	6099.8	5930.8	5758.5	5577.5	5421.3	5317.0	5374.7	5412.0
60°	6550.6	6406.3	6227.1	6027.7	5869.7	5763.5	5796.6	5829.7
62.5°	6907.3	6963.3	6811.3	6580.3	6377.5	6241.6	6273.8	6308.6
65°	6735.0	7309.8	7444.7	7211.2	6930.2	6718.8	6705.2	6723.0
67.5°	5629.4	6746.0	7560.2	7782.6	7547.5	7253.7	7199.3	7225.7
70°	3765.6	5156.5	6593.1	7663.0	7947.4	7833.7	7780.2	7796.3
72.5°	1808.6	3003.2	4473.0	5895.2	6761.2	7158.5	7286.0	7347.9
75°	661.4	1192.1	2155.8	3248.6	3921.9	4540.0	4943.3	5108.1
77.5°	399.1	481.4	688.6	1036.8	1174.3	1314.4	1260.1	1287.2
80°	295.4	333.7	377.8	424.6	439.9	439.9	422.9	409.2
82.5°	207.1	231.8	253.1	278.5	285.2	272.6	224.2	178.3
85°	133.3	144.3	153.7	169.8	165.5	157.9	106.1	94.3
87.5°	61.1	69.6	72.9	80.7	77.2	73.9	52.7	44.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)