

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: P268489

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268489
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-05-LED-U-5WQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27225.3 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

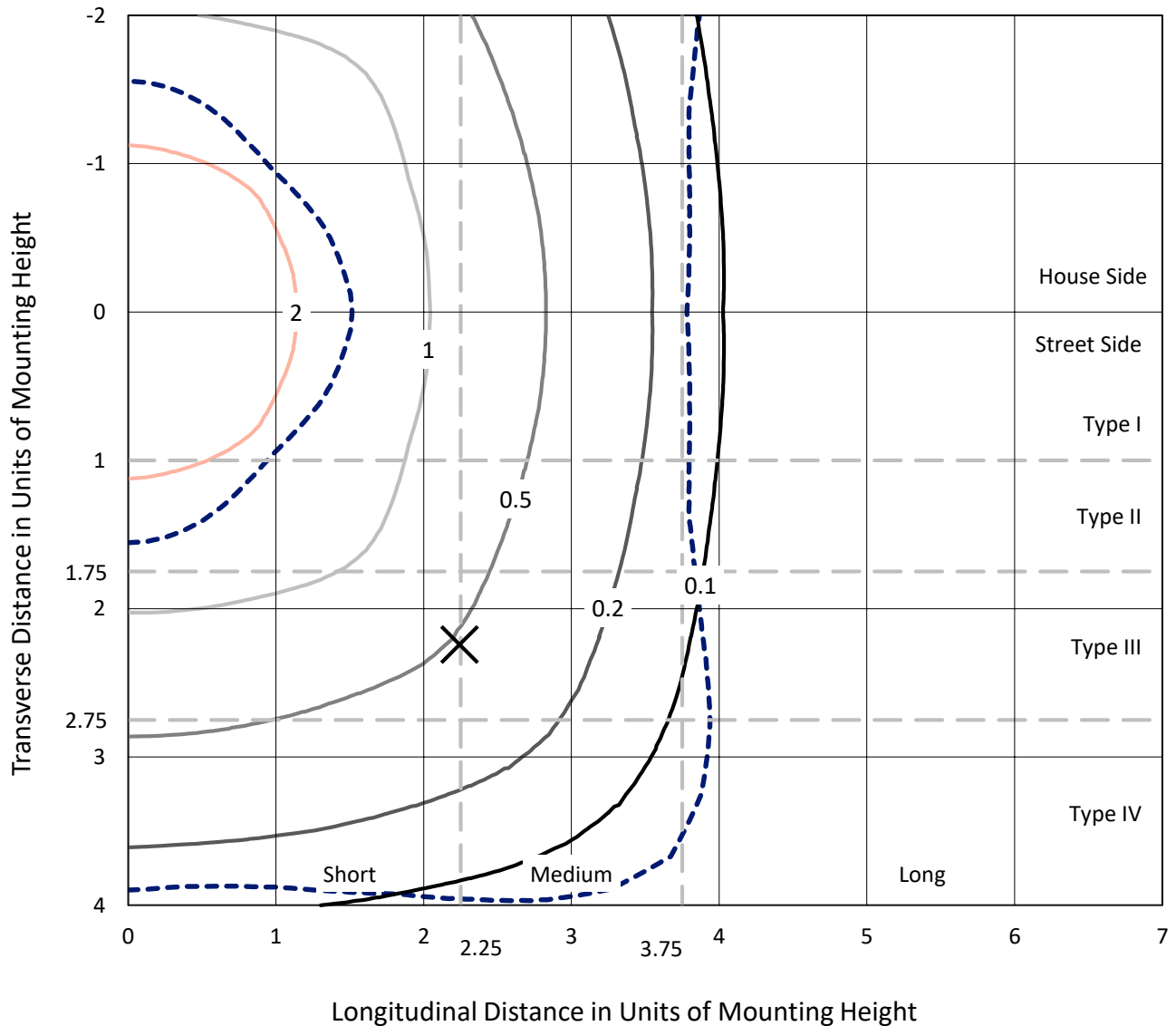
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

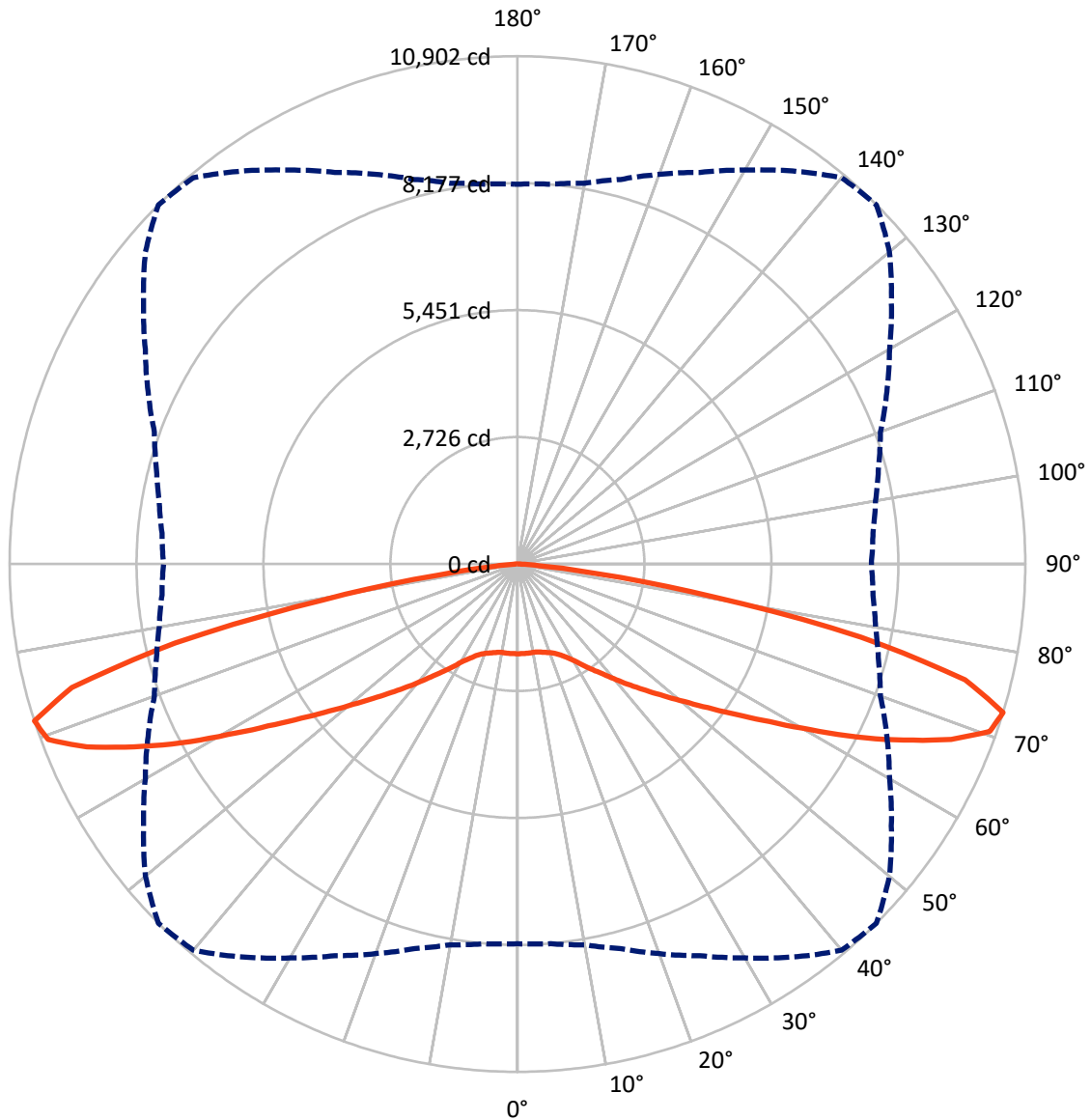
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	13612.7	0.0	13612.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13612.7	0.0	13612.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	27225.3	0.0	27225.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	0.7
10°-20°	559.1	2.1
20°-30°	1021.8	3.8
30°-40°	1761.7	6.5
40°-50°	3011.6	11.1
50°-60°	4881.4	17.9
60°-70°	8098.1	29.7
70°-80°	7132.5	26.2
80°-90°	575.1	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°	27225.3	100.0
0°-180°	27225.3	100.0



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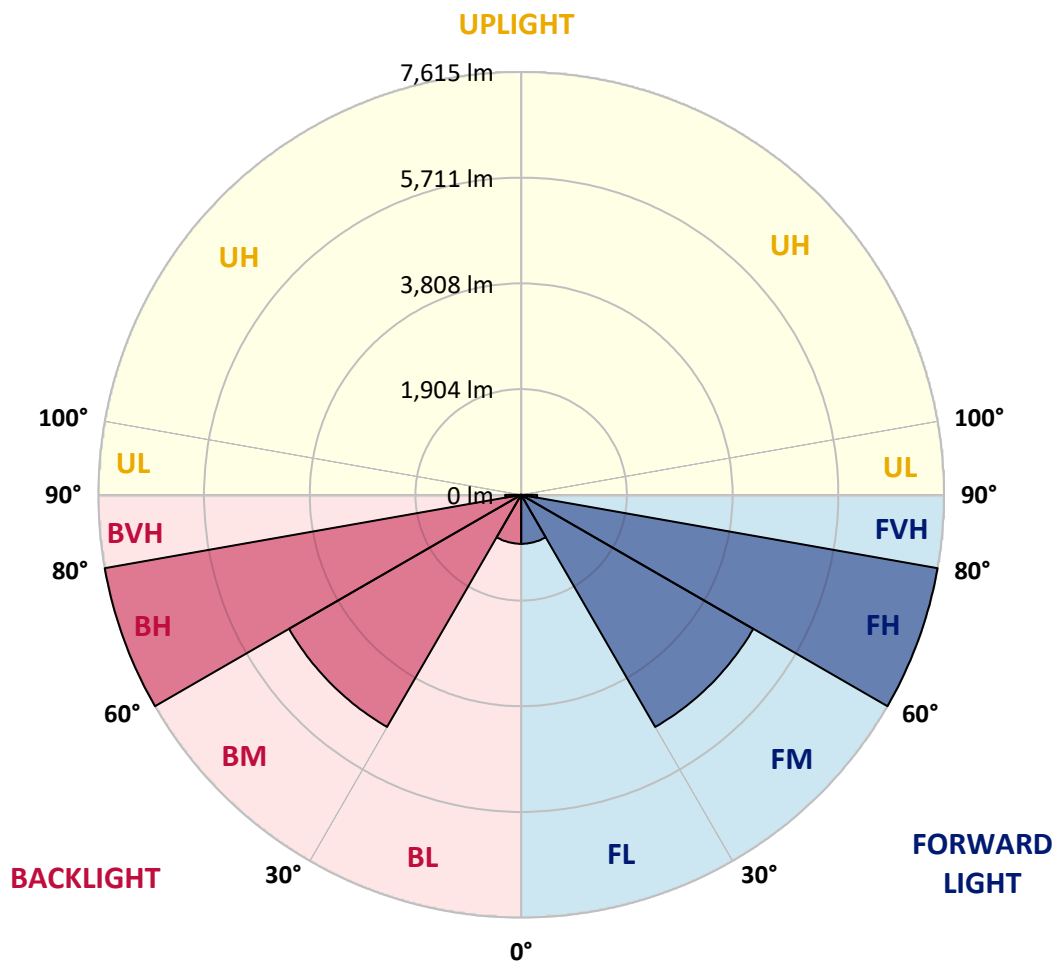
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.5	3.2			
FM	(30°-60°)	4827.3	17.7			
FH	(60°-80°)	7615.3	28.0			G4/12000
FVH	(80°-90°)	287.5	1.1			G3/500
BL	(0°-30°)	882.5	3.2	B2/1000		
BM	(30°-60°)	4827.3	17.7	B3/5000		
BH	(60°-80°)	7615.3	28.0	B5		G4/12000
BVH	(80°-90°)	287.5	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°	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0
2.5°	1928.0	1929.2	1930.5	1929.2	1929.2	1928.0	1926.8	1928.0	1926.8	1924.2	1925.4
5°	1934.2	1936.7	1936.7	1934.2	1935.5	1934.2	1931.7	1933.0	1930.5	1926.8	1926.8
7.5°	1941.6	1942.9	1942.9	1940.5	1941.6	1939.3	1936.7	1935.5	1933.0	1928.0	1924.2
10°	1952.9	1954.3	1952.9	1950.5	1950.5	1946.6	1940.5	1938.0	1933.0	1925.4	1921.7
12.5°	1965.4	1966.7	1965.4	1962.9	1961.7	1955.4	1950.5	1946.6	1942.9	1936.7	1930.5
15°	1982.9	1985.4	1982.9	1977.9	1974.1	1969.2	1966.7	1967.9	1969.2	1964.1	1957.9
17.5°	2015.3	2016.7	2012.9	2001.7	1996.7	1991.6	1991.6	1994.1	1997.9	1995.4	1989.1
20°	2075.4	2071.6	2062.9	2049.2	2042.8	2034.1	2032.9	2034.1	2034.1	2032.9	2027.8
22.5°	2150.3	2147.8	2136.4	2119.0	2110.3	2105.3	2097.8	2091.6	2090.3	2086.6	2081.6
25°	2240.2	2238.8	2225.1	2210.2	2203.9	2197.8	2191.4	2182.7	2175.2	2166.5	2161.5
27.5°	2355.0	2350.1	2330.1	2322.6	2313.9	2310.1	2301.4	2291.3	2285.1	2273.9	2267.6
30°	2481.2	2481.2	2464.9	2462.4	2462.4	2453.7	2443.7	2426.2	2415.0	2403.8	2400.0
32.5°	2607.3	2608.5	2592.2	2597.3	2601.0	2607.3	2609.8	2603.5	2596.0	2594.8	2587.3
35°	2789.5	2784.6	2768.3	2772.1	2770.8	2769.6	2769.6	2783.3	2785.9	2788.2	2773.3
37.5°	3015.6	3015.6	2999.4	2999.4	2991.9	2984.3	2974.4	2983.1	2996.8	3000.6	2990.5
40°	3274.1	3282.8	3262.9	3261.6	3264.1	3240.4	3229.0	3242.8	3251.5	3266.5	3255.4
42.5°	3578.8	3572.5	3552.4	3550.0	3536.3	3528.8	3518.8	3530.0	3543.8	3553.8	3557.5
45°	3870.9	3865.9	3843.5	3843.5	3829.7	3823.5	3828.4	3847.3	3853.5	3867.3	3880.9
47.5°	4159.4	4153.1	4138.1	4144.4	4145.7	4156.8	4173.2	4190.7	4208.1	4226.9	4233.1
50°	4454.1	4455.4	4439.1	4454.1	4472.8	4504.0	4547.7	4576.4	4612.6	4636.4	4643.9
52.5°	4722.5	4727.5	4744.9	4780.1	4817.4	4878.6	4953.6	5023.5	5083.4	5123.4	5120.9
55°	5044.7	5052.2	5094.6	5154.6	5215.7	5308.2	5419.4	5542.9	5642.9	5700.3	5664.1
57.5°	5456.8	5473.1	5520.4	5601.7	5692.7	5812.7	5964.9	6151.1	6305.9	6383.3	6324.5
60°	6022.4	6032.4	6089.9	6179.8	6289.7	6438.2	6641.8	6891.4	7110.1	7212.4	7144.9
62.5°	6767.9	6786.6	6832.8	6924.0	7036.3	7204.9	7453.4	7765.6	8037.9	8180.1	8027.9
65°	7658.2	7718.1	7756.9	7849.3	7954.1	8132.7	8392.4	8727.0	9019.3	9112.9	8936.9
67.5°	8539.7	8592.2	8659.7	8765.8	8871.9	9073.1	9313.9	9638.6	9959.6	10044.5	9771.0
70°	8925.6	8955.7	9060.5	9205.3	9408.8	9646.1	9924.6	10289.1	10686.2	10756.2	10409.1
72.5°	8152.7	8182.7	8300.0	8546.0	8900.6	9277.8	9763.5	10299.2	10823.7	10902.3	10424.0
75°	6166.1	6117.3	6290.9	6616.7	7095.1	7620.7	8300.0	9068.0	9825.9	9924.6	9354.0
77.5°	3186.6	3180.4	3311.5	3716.1	4286.7	4884.9	5632.8	6500.7	7242.3	7542.1	7077.6
80°	897.8	907.7	970.2	1171.3	1504.8	1936.7	2521.2	3334.0	3940.9	4250.5	3990.8
82.5°	352.1	379.7	403.2	440.8	484.5	548.1	731.7	1088.8	1461.0	1745.6	1429.7
85°	126.1	134.8	191.1	226.1	229.7	242.3	276.0	322.1	388.3	463.3	380.8
87.5°	47.4	52.5	61.2	101.1	99.9	91.2	111.1	116.2	87.5	79.9	98.6
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°	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0	1928.0
2.5°	1923.0	1924.2	1924.2	1925.4	1926.8	1926.8	1929.2	1929.2
5°	1924.2	1924.2	1921.7	1923.0	1921.7	1921.7	1923.0	1923.0
7.5°	1921.7	1920.4	1918.1	1916.8	1914.3	1914.3	1914.3	1914.3
10°	1918.1	1916.8	1914.3	1913.0	1911.8	1911.8	1911.8	1911.8
12.5°	1928.0	1924.2	1921.7	1920.4	1920.4	1920.4	1920.4	1920.4
15°	1954.3	1945.5	1939.3	1939.3	1940.5	1942.9	1942.9	1945.5
17.5°	1986.6	1976.7	1970.4	1965.4	1967.9	1971.7	1974.1	1976.7
20°	2025.4	2020.4	2011.7	2006.6	2006.6	2011.7	2014.1	2015.3
22.5°	2079.0	2075.4	2071.6	2065.4	2065.4	2067.8	2072.7	2072.7
25°	2158.9	2156.6	2154.0	2148.9	2147.8	2147.8	2150.3	2152.8
27.5°	2258.9	2260.1	2257.6	2256.5	2252.6	2251.4	2255.1	2253.8
30°	2392.5	2398.7	2405.0	2400.0	2393.8	2390.0	2386.3	2381.2
32.5°	2573.6	2566.1	2561.1	2552.4	2541.0	2531.1	2523.6	2514.8
35°	2744.6	2732.1	2727.2	2734.6	2733.5	2727.2	2718.5	2710.9
37.5°	2954.3	2951.9	2954.3	2968.1	2965.7	2972.0	2954.3	2953.2
40°	3219.2	3221.6	3239.1	3255.4	3264.1	3272.9	3262.9	3252.9
42.5°	3526.2	3525.0	3531.2	3553.8	3568.7	3578.8	3557.5	3555.0
45°	3850.9	3842.2	3847.3	3865.9	3880.9	3892.1	3868.5	3868.5
47.5°	4208.1	4193.1	4176.8	4198.0	4206.9	4214.3	4195.7	4189.3
50°	4606.4	4575.2	4540.3	4548.9	4548.9	4546.5	4522.7	4521.4
52.5°	5063.4	5006.0	4942.4	4918.6	4904.8	4889.8	4848.6	4828.7
55°	5589.2	5502.9	5403.0	5342.0	5309.4	5268.2	5199.5	5180.9
57.5°	6203.4	6068.6	5896.4	5821.3	5749.0	5681.5	5605.3	5584.1
60°	6931.5	6732.9	6504.4	6365.7	6287.1	6222.2	6143.6	6139.7
62.5°	7743.1	7429.7	7171.2	7046.3	6989.0	6931.5	6856.6	6866.6
65°	8568.6	8241.3	7999.0	7898.0	7844.3	7796.7	7721.9	7733.1
67.5°	9382.6	9081.8	8815.7	8712.1	8652.1	8592.2	8524.7	8536.1
70°	9967.1	9593.7	9294.0	9064.3	8920.6	8758.4	8653.5	8627.2
72.5°	9799.7	9224.1	8748.4	8292.6	8025.3	7808.1	7660.7	7597.1
75°	8481.1	7694.4	7082.5	6523.1	6208.5	5952.4	5766.4	5650.2
77.5°	6298.3	5414.4	4691.3	4047.0	3537.5	3195.5	2954.3	2798.3
80°	3447.7	2622.2	1916.8	1347.4	990.2	822.8	726.6	680.6
82.5°	1073.8	693.0	510.6	440.8	409.5	392.1	363.4	317.2
85°	342.2	299.7	278.5	266.0	253.5	221.1	152.4	138.6
87.5°	132.4	136.2	134.8	127.4	129.8	93.7	74.9	66.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)