

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: P481396

Luminaire Tested: **IFLD-S-SA3D-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481396
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

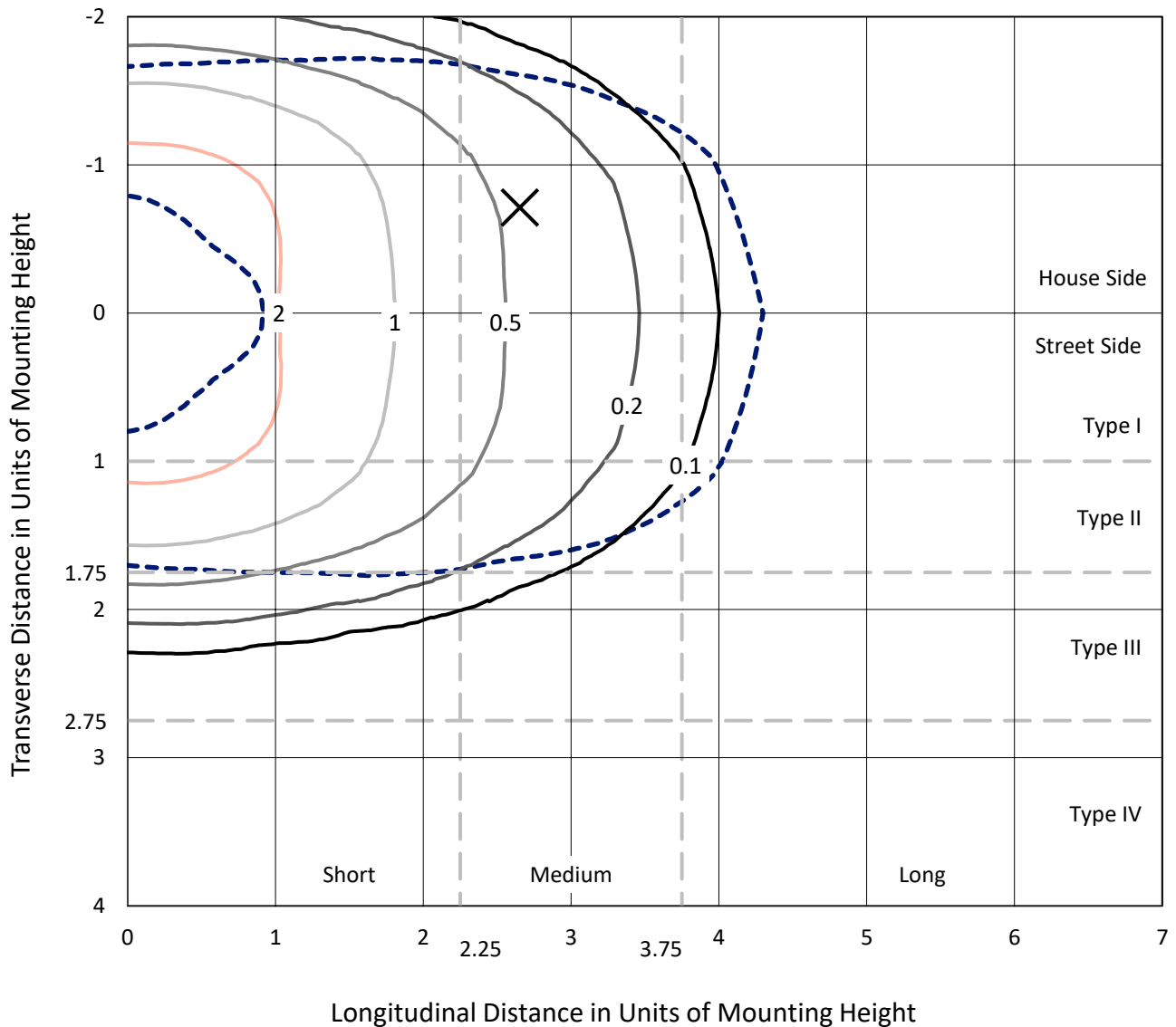
Lumens per Lamp: N/A
Luminaire Lumens: 17647.4 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 184.1
Input Voltage (V): 120
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: 24 FT

REPORT NUMBER: P481396
 CATALOG NUMBER: IFLD-S-SA3D-827-U-RW

Iso-Footcandle Lines of Horizontal Illumination

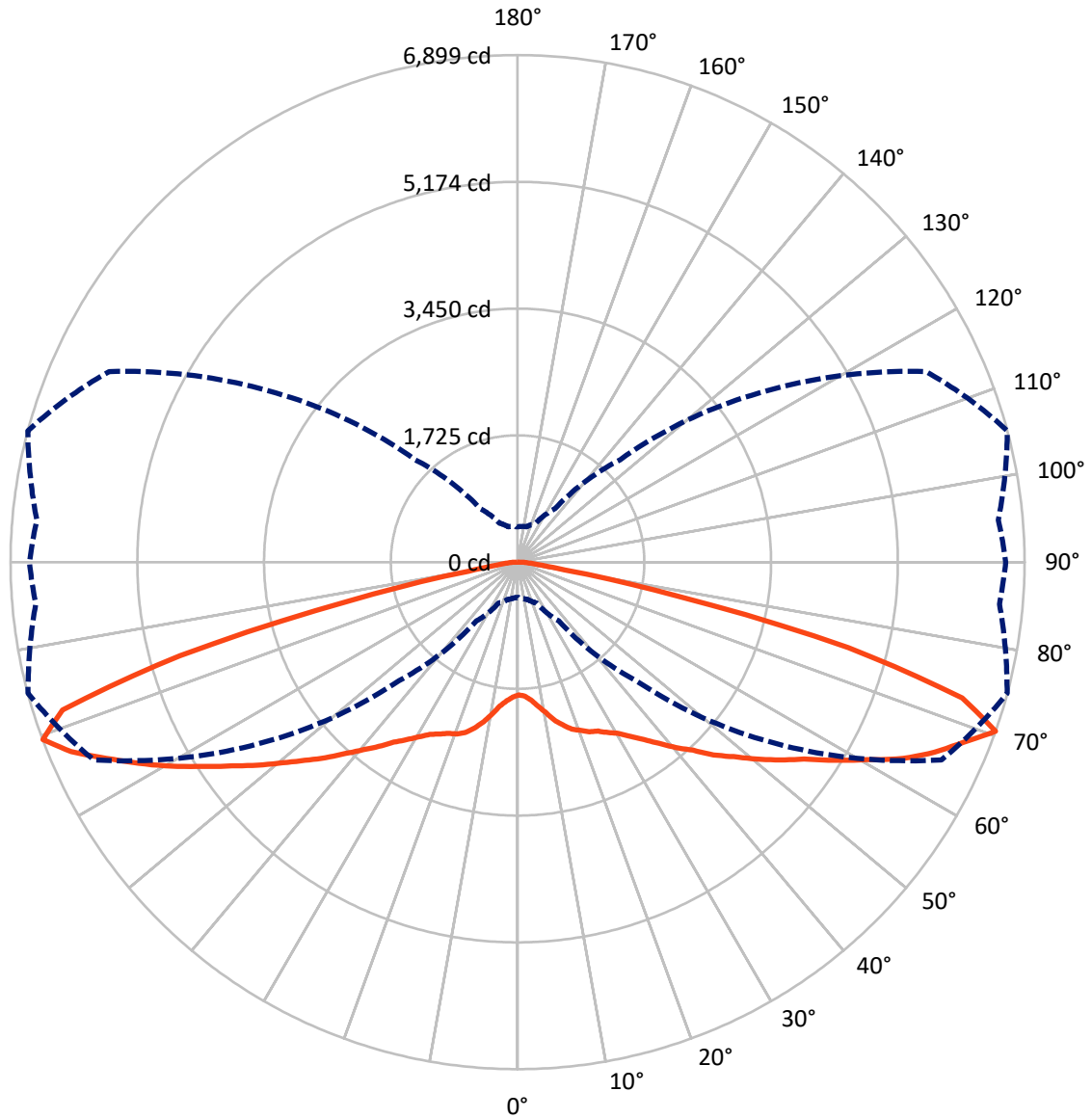
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8761.0	0.0	8761.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8886.5	0.0	8886.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	17647.4	0.0	17647.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.0
10°-20°	612.4	3.5
20°-30°	1185.9	6.7
30°-40°	2005.8	11.4
40°-50°	3199.8	18.1
50°-60°	4379.9	24.8
60°-70°	4128.3	23.4
70°-80°	1818.6	10.3
80°-90°	136.8	0.8
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°	17647.4	100.0
0°-180°	17647.4	100.0

Coefficient of Utilization

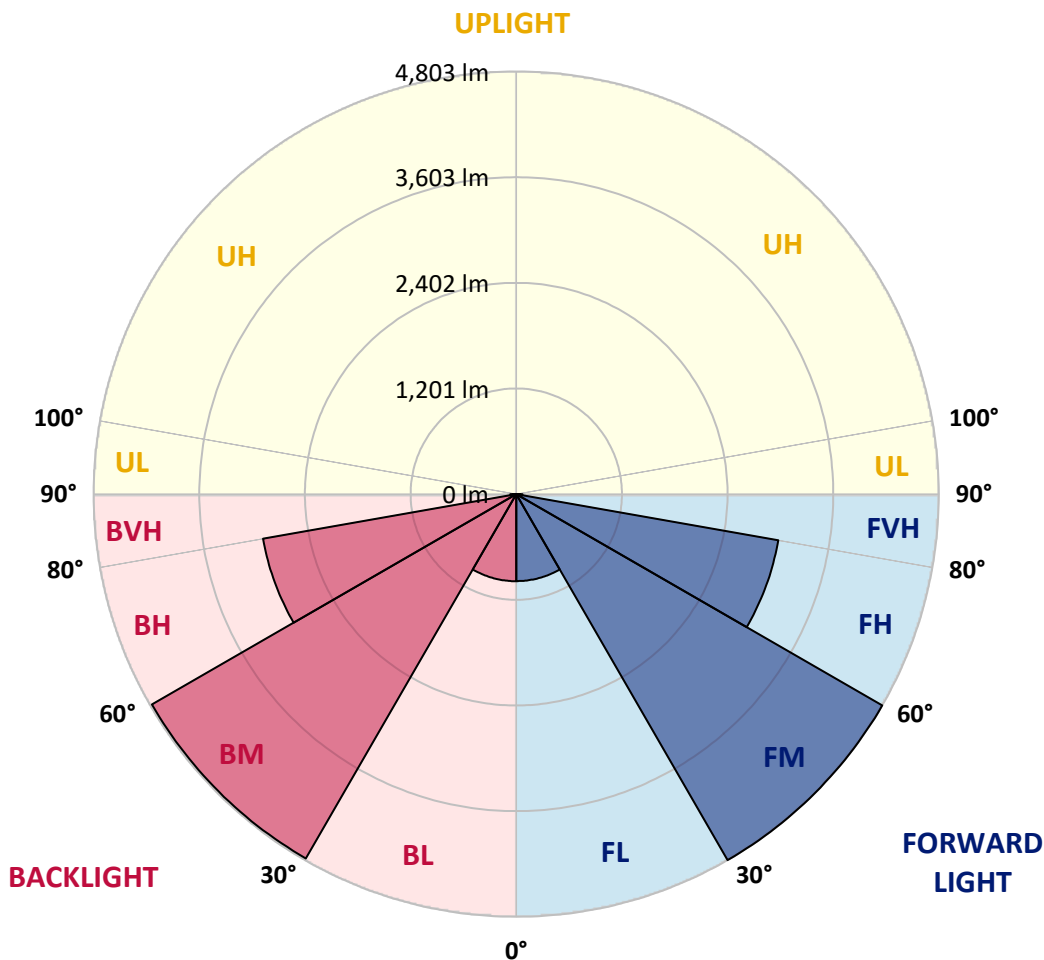


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.5	5.6			
FM (30°-60°)	4803.5	27.2			
FH (60°-80°)	3024.6	17.1			G2/5000
FVH (80°-90°)	69.9	0.4			G1/100
BL (0°-30°)	989.6	5.6	B2/1000		
BM (30°-60°)	4782.0	27.1	B3/5000		
BH (60°-80°)	2922.4	16.6	B4/5000		G4/5000
BVH (80°-90°)	66.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1
2.5°	1795.7	1795.7	1793.8	1803.3	1812.8	1816.6	1824.2	1826.1	1837.5	1828.0	1847.0
5°	1790.0	1788.1	1803.3	1826.1	1826.1	1850.8	1866.0	1887.0	1892.7	1904.1	1907.9
7.5°	1829.9	1826.1	1818.5	1843.2	1864.1	1902.2	1923.1	1959.3	1972.6	1987.8	2004.9
10°	1854.6	1854.6	1847.0	1890.8	1909.8	1961.2	2006.8	2043.0	2094.3	2111.4	2113.3
12.5°	1858.4	1864.1	1887.0	1944.0	1997.3	2063.9	2098.1	2166.6	2218.0	2250.3	2261.7
15°	1915.5	1904.1	1928.8	2006.8	2084.8	2143.8	2204.6	2254.1	2328.3	2370.1	2396.8
17.5°	1966.9	1955.5	2001.1	2094.3	2174.2	2265.5	2318.8	2372.0	2425.3	2463.3	2465.2
20°	2048.7	2058.2	2098.1	2198.9	2303.6	2383.4	2444.3	2453.8	2480.5	2535.6	2526.1
22.5°	2149.5	2141.9	2225.6	2335.9	2450.0	2516.6	2550.8	2526.1	2512.8	2571.8	2585.1
25°	2250.3	2273.1	2349.2	2451.9	2588.9	2678.3	2687.8	2619.3	2569.9	2590.8	2585.1
27.5°	2404.4	2408.2	2488.1	2609.8	2748.7	2826.7	2820.9	2723.9	2628.8	2630.7	2634.5
30°	2602.2	2583.2	2670.7	2781.0	2918.0	2988.3	2997.9	2859.0	2731.5	2693.5	2703.0
32.5°	2792.4	2815.2	2891.3	3016.9	3117.7	3157.6	3136.7	3013.1	2847.6	2796.2	2801.9
35°	3035.9	3032.1	3136.7	3243.2	3319.3	3326.9	3309.8	3129.1	2973.1	2906.5	2879.9
37.5°	3296.5	3330.7	3399.2	3486.7	3566.6	3570.4	3477.2	3332.6	3140.5	3030.2	3062.5
40°	3587.5	3625.6	3675.0	3802.5	3861.4	3800.6	3705.5	3509.5	3309.8	3212.8	3228.0
42.5°	3844.3	3861.4	3962.3	4112.5	4141.1	4114.4	3973.7	3735.9	3503.8	3397.3	3404.9
45°	4080.2	4103.0	4234.3	4369.3	4435.9	4390.3	4226.7	4000.3	3730.2	3638.9	3602.7
47.5°	4297.0	4342.7	4470.1	4609.0	4711.7	4715.5	4513.9	4240.0	3954.7	3834.8	3832.9
50°	4443.5	4510.1	4635.6	4793.5	4943.8	5002.8	4801.1	4506.3	4200.0	4072.6	4059.3
52.5°	4523.4	4591.9	4717.4	4962.8	5130.2	5221.5	5126.4	4755.5	4487.3	4354.1	4333.2
55°	4426.4	4472.0	4677.5	5021.8	5280.5	5430.8	5368.0	5099.8	4772.6	4664.2	4683.2
57.5°	4013.6	4108.7	4361.7	4791.6	5276.7	5645.7	5640.0	5425.0	5101.7	4999.0	5002.8
60°	3304.1	3384.0	3696.0	4297.0	5063.6	5733.2	5934.8	5740.8	5470.7	5350.9	5347.1
62.5°	2332.1	2432.9	2794.3	3450.6	4435.9	5611.5	6273.4	6138.4	5832.1	5744.6	5777.0
65°	1304.9	1365.8	1700.6	2294.0	3380.2	4941.9	6334.3	6551.1	6199.2	6066.1	6071.8
67.5°	698.1	720.9	876.9	1204.1	2067.7	3810.1	5719.9	6788.9	6596.8	6366.6	6330.5
70°	479.4	487.0	526.9	616.3	977.7	2278.8	4314.2	6364.7	6895.4	6581.6	6642.4
72.5°	405.2	401.4	410.9	420.4	511.7	1019.6	2531.8	4898.1	6509.3	6391.4	6368.5
75°	351.9	350.0	353.8	344.3	355.7	448.9	1120.4	3053.0	4765.0	5318.5	5404.1
77.5°	291.0	292.9	294.8	285.3	281.5	296.7	450.8	1341.0	2345.4	2588.9	2792.4
80°	220.7	224.5	239.7	230.2	214.9	216.8	266.3	448.9	673.4	610.6	629.6
82.5°	150.3	152.2	184.5	173.1	161.7	146.5	171.2	232.1	262.5	199.7	175.0
85°	106.5	104.6	119.8	110.3	102.7	74.2	102.7	131.3	157.9	98.9	89.4
87.5°	24.7	24.7	49.5	39.9	38.0	30.4	39.9	51.4	68.5	43.8	39.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1	1807.1
2.5°	1841.3	1824.2	1824.2	1820.4	1805.2	1801.4	1788.1	1791.9	1782.4	1772.8
5°	1906.0	1883.2	1883.2	1850.8	1820.4	1816.6	1801.4	1801.4	1786.2	1790.0
7.5°	1995.4	1974.5	1940.2	1911.7	1869.9	1852.7	1824.2	1820.4	1816.6	1809.0
10°	2101.9	2075.3	2041.0	1982.1	1947.8	1915.5	1887.0	1847.0	1837.5	1839.4
12.5°	2246.5	2204.6	2130.5	2079.1	2035.3	1993.5	1951.6	1892.7	1879.4	1885.1
15°	2349.2	2295.9	2221.8	2202.7	2143.8	2092.4	2023.9	1957.4	1934.5	1928.8
17.5°	2432.9	2389.2	2345.4	2316.9	2269.3	2206.5	2111.4	2035.3	1984.0	1978.3
20°	2501.4	2444.3	2434.8	2451.9	2393.0	2351.1	2235.1	2141.9	2073.4	2044.9
22.5°	2543.2	2507.1	2533.7	2548.9	2545.1	2474.7	2354.9	2246.5	2160.9	2134.3
25°	2588.9	2547.0	2642.1	2693.5	2706.8	2590.8	2497.6	2354.9	2271.2	2254.1
27.5°	2611.7	2626.9	2737.3	2845.7	2836.2	2746.8	2621.2	2493.8	2427.2	2396.8
30°	2678.3	2703.0	2870.4	2992.1	2994.0	2906.5	2811.4	2666.9	2592.7	2579.4
32.5°	2798.1	2828.6	3007.4	3136.7	3159.5	3093.0	2997.9	2908.4	2832.4	2801.9
35°	2889.4	2967.4	3169.0	3287.0	3347.9	3307.9	3254.6	3161.4	3081.5	3054.9
37.5°	3020.7	3129.1	3323.1	3482.9	3551.4	3547.6	3507.6	3406.8	3340.2	3317.4
40°	3209.0	3317.4	3494.3	3705.5	3832.9	3827.2	3804.4	3726.4	3627.5	3616.1
42.5°	3408.7	3498.1	3728.3	3969.9	4152.5	4133.5	4072.6	3981.3	3912.8	3897.6
45°	3602.7	3741.6	3954.7	4264.7	4401.7	4449.2	4376.9	4221.0	4143.0	4133.5
47.5°	3846.2	3956.6	4222.9	4500.6	4704.1	4711.7	4588.1	4443.5	4300.9	4331.3
50°	4063.1	4209.5	4479.7	4784.0	5027.5	4940.0	4782.1	4601.4	4498.7	4458.7
52.5°	4295.1	4474.0	4787.8	5097.9	5232.9	5145.4	4888.6	4687.0	4531.0	4513.9
55°	4633.7	4726.9	5137.8	5375.6	5419.3	5234.8	4856.3	4571.0	4369.3	4319.9
57.5°	4978.0	5086.5	5446.0	5651.4	5605.8	5185.4	4647.1	4205.7	3941.3	3871.0
60°	5326.1	5459.3	5761.7	5950.1	5714.2	4844.9	4055.5	3486.7	3178.6	3115.8
62.5°	5714.2	5887.3	6157.4	6224.0	5392.7	4171.5	3218.5	2516.6	2204.6	2100.0
65°	6058.5	6235.4	6568.3	6166.9	4709.8	3112.0	2081.0	1438.1	1207.9	1124.2
67.5°	6341.9	6541.6	6705.2	5457.4	3448.7	1822.3	1084.2	757.1	671.5	641.0
70°	6566.4	6899.2	6134.6	4011.7	1970.7	888.3	585.9	498.4	487.0	479.4
72.5°	6370.4	6326.7	4580.5	2315.0	863.6	488.9	424.2	410.9	409.0	410.9
75°	5210.1	4647.1	2739.2	1006.3	433.7	353.8	351.9	346.2	355.7	355.7
77.5°	2528.0	2210.3	1145.1	431.8	285.3	277.7	287.2	287.2	287.2	287.2
80°	585.9	648.6	409.0	262.5	207.3	207.3	228.3	230.2	220.7	216.8
82.5°	199.7	266.3	224.5	165.5	137.0	154.1	173.1	176.9	146.5	148.4
85°	98.9	156.0	121.7	95.1	70.4	95.1	112.2	117.9	100.8	97.0
87.5°	45.7	68.5	45.7	32.3	24.7	34.2	32.3	26.6	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)