

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: P481395

Luminaire Tested: **IFLD-S-SA3C-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481395
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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

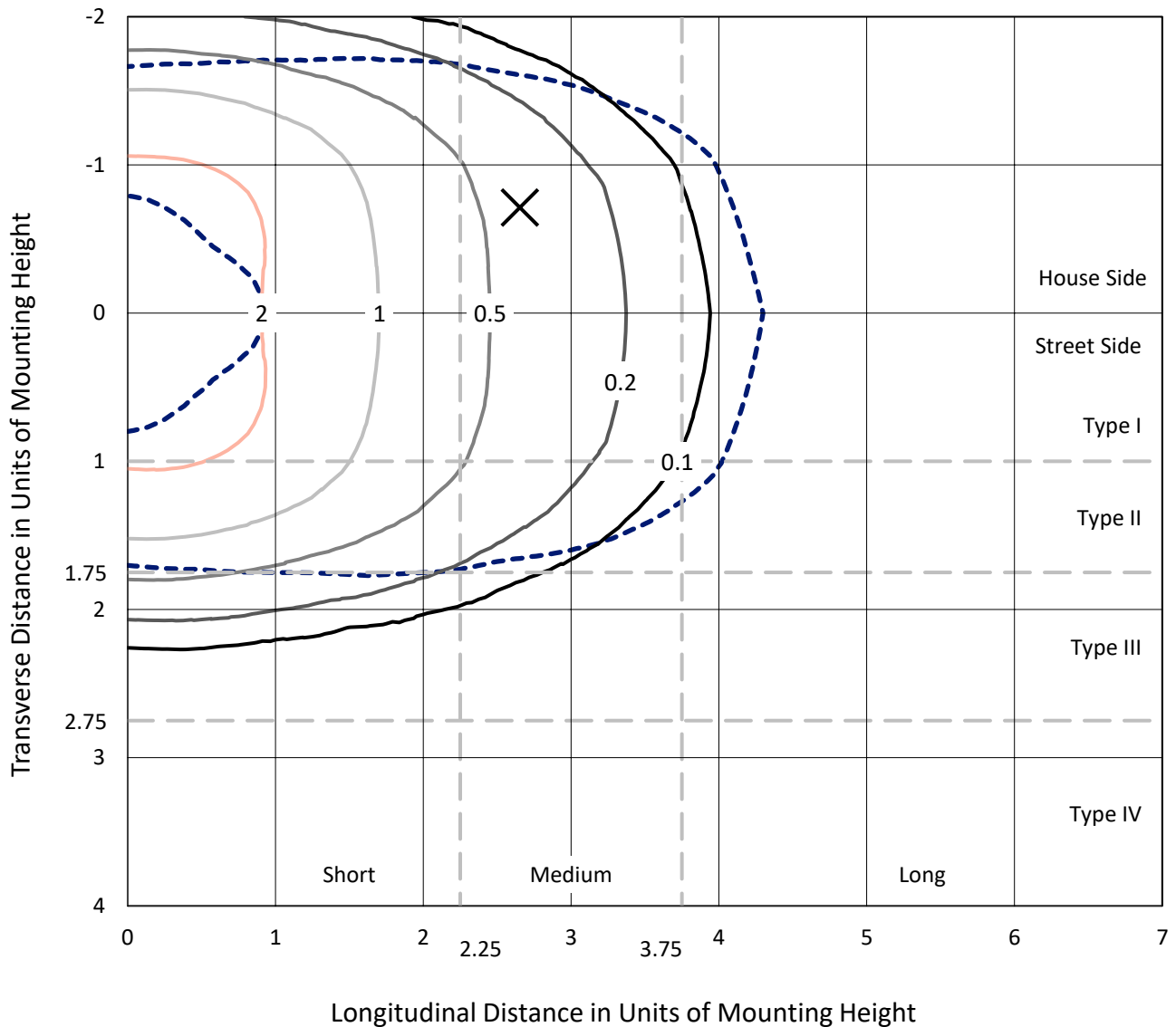
Lumens per Lamp: N/A
Luminaire Lumens: 16038.4 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 160.8
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

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Iso-Footcandle Lines of Horizontal Illumination

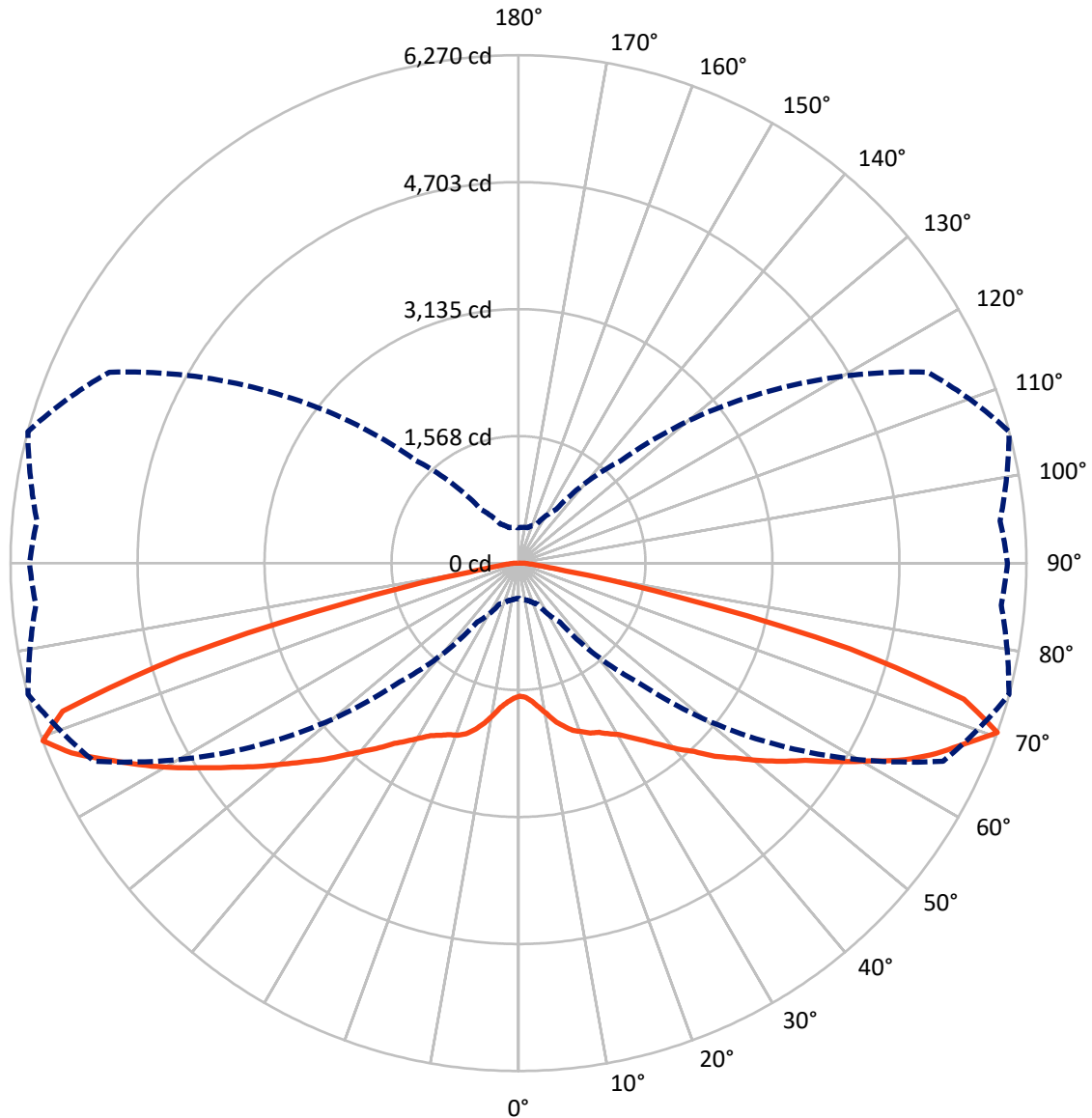
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type 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	7962.2	0.0	7962.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8076.3	0.0	8076.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	16038.4	0.0	16038.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.0
10°-20°	556.6	3.5
20°-30°	1077.7	6.7
30°-40°	1822.9	11.4
40°-50°	2908.1	18.1
50°-60°	3980.5	24.8
60°-70°	3751.9	23.4
70°-80°	1652.8	10.3
80°-90°	124.4	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°	16038.4	100.0
0°-180°	16038.4	100.0

Coefficient of Utilization



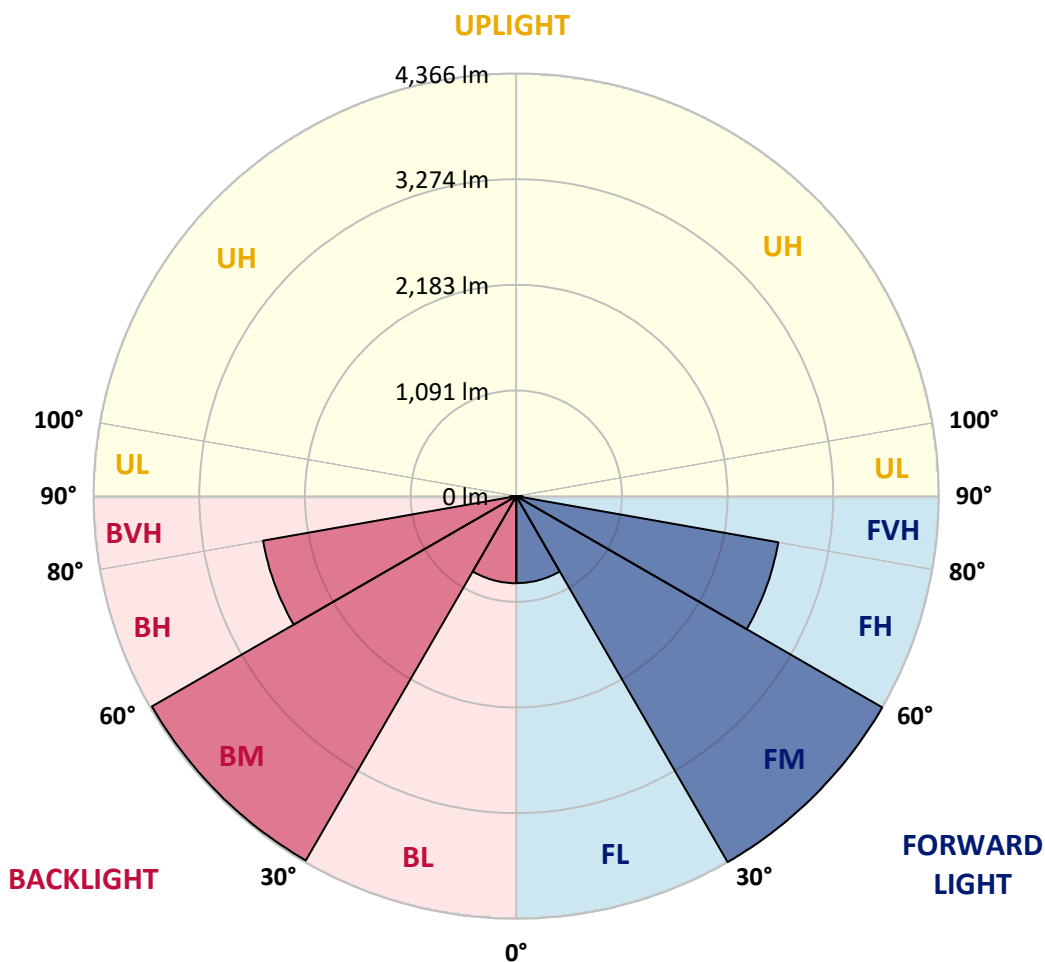
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.4	5.6			
FM (30°-60°)	4365.5	27.2			
FH (60°-80°)	2748.8	17.1			G2/5000
FVH (80°-90°)	63.5	0.4			G1/100
BL (0°-30°)	899.4	5.6	B2/1000		
BM (30°-60°)	4346.0	27.1	B3/5000		
BH (60°-80°)	2655.9	16.6	B4/5000		G4/5000
BVH (80°-90°)	60.8	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°	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3
2.5°	1631.9	1631.9	1630.2	1638.9	1647.5	1651.0	1657.9	1659.6	1670.0	1661.3	1678.6
5°	1626.8	1625.0	1638.9	1659.6	1659.6	1682.1	1695.9	1714.9	1720.1	1730.5	1733.9
7.5°	1663.1	1659.6	1652.7	1675.2	1694.2	1728.8	1747.8	1780.6	1792.7	1806.6	1822.1
10°	1685.5	1685.5	1678.6	1718.4	1735.7	1782.3	1823.8	1856.7	1903.4	1918.9	1920.6
12.5°	1689.0	1694.2	1714.9	1766.8	1815.2	1875.7	1906.8	1969.1	2015.7	2045.1	2055.5
15°	1740.9	1730.5	1753.0	1823.8	1894.7	1948.3	2003.6	2048.6	2116.0	2154.0	2178.2
17.5°	1787.5	1777.2	1818.7	1903.4	1976.0	2058.9	2107.4	2155.8	2204.2	2238.7	2240.5
20°	1861.9	1870.5	1906.8	1998.4	2093.5	2166.1	2221.5	2230.1	2254.3	2304.4	2295.8
22.5°	1953.5	1946.6	2022.6	2122.9	2226.6	2287.1	2318.3	2295.8	2283.7	2337.3	2349.4
25°	2045.1	2065.9	2135.0	2228.4	2352.8	2434.1	2442.7	2380.5	2335.6	2354.6	2349.4
27.5°	2185.1	2188.6	2261.2	2371.9	2498.1	2568.9	2563.7	2475.6	2389.1	2390.9	2394.3
30°	2364.9	2347.7	2427.2	2527.4	2651.9	2715.9	2724.5	2598.3	2482.5	2447.9	2456.6
32.5°	2537.8	2558.6	2627.7	2741.8	2833.4	2869.7	2850.7	2738.4	2587.9	2541.3	2546.5
35°	2759.1	2755.6	2850.7	2947.5	3016.7	3023.6	3008.0	2843.8	2702.0	2641.5	2617.3
37.5°	2995.9	3027.1	3089.3	3168.8	3241.4	3244.9	3160.2	3028.8	2854.2	2753.9	2783.3
40°	3260.4	3295.0	3340.0	3455.8	3509.4	3454.1	3367.6	3189.6	3008.0	2919.9	2933.7
42.5°	3493.8	3509.4	3601.0	3737.6	3763.5	3739.3	3611.4	3395.3	3184.4	3087.6	3094.5
45°	3708.2	3728.9	3848.2	3971.0	4031.5	3990.0	3841.3	3635.6	3390.1	3307.1	3274.3
47.5°	3905.3	3946.8	4062.6	4188.8	4282.1	4285.6	4102.3	3853.4	3594.1	3485.2	3483.4
50°	4038.4	4098.9	4213.0	4356.5	4493.0	4546.6	4363.4	4095.4	3817.1	3701.3	3689.2
52.5°	4111.0	4173.2	4287.3	4510.3	4662.5	4745.4	4659.0	4321.9	4078.1	3957.1	3938.1
55°	4022.8	4064.3	4251.0	4563.9	4799.0	4935.6	4878.6	4634.8	4337.5	4238.9	4256.2
57.5°	3647.7	3734.1	3964.0	4354.7	4795.6	5130.9	5125.8	4930.4	4636.5	4543.2	4546.6
60°	3002.9	3075.5	3359.0	3905.3	4602.0	5210.5	5393.7	5217.4	4971.9	4863.0	4859.5
62.5°	2119.5	2211.1	2539.5	3136.0	4031.5	5099.8	5701.4	5578.7	5300.4	5220.8	5250.2
65°	1185.9	1241.2	1545.5	2084.9	3072.0	4491.3	5756.8	5953.8	5634.0	5513.0	5518.2
67.5°	634.5	655.2	797.0	1094.3	1879.2	3462.7	5198.4	6169.9	5995.3	5786.1	5753.3
70°	435.6	442.6	478.9	560.1	888.6	2071.1	3920.8	5784.4	6266.7	5981.5	6036.8
72.5°	368.2	364.8	373.4	382.1	465.0	926.6	2301.0	4451.5	5915.8	5808.6	5787.9
75°	319.8	318.1	321.5	312.9	323.3	408.0	1018.2	2774.7	4330.5	4833.6	4911.4
77.5°	264.5	266.2	268.0	259.3	255.9	269.7	409.7	1218.8	2131.6	2352.8	2537.8
80°	200.5	204.0	217.8	209.2	195.3	197.1	242.0	408.0	612.0	554.9	572.2
82.5°	136.6	138.3	167.7	157.3	146.9	133.1	155.6	210.9	238.6	181.5	159.0
85°	96.8	95.1	108.9	100.3	93.4	67.4	93.4	119.3	143.5	89.9	81.3
87.5°	22.5	22.5	44.9	36.3	34.6	27.7	36.3	46.7	62.2	39.8	36.3
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°	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3	1642.3
2.5°	1673.4	1657.9	1657.9	1654.4	1640.6	1637.1	1625.0	1628.5	1619.8	1611.2
5°	1732.2	1711.5	1711.5	1682.1	1654.4	1651.0	1637.1	1637.1	1623.3	1626.8
7.5°	1813.5	1794.4	1763.3	1737.4	1699.4	1683.8	1657.9	1654.4	1651.0	1644.0
10°	1910.3	1886.1	1855.0	1801.4	1770.2	1740.9	1714.9	1678.6	1670.0	1671.7
12.5°	2041.7	2003.6	1936.2	1889.5	1849.8	1811.7	1773.7	1720.1	1708.0	1713.2
15°	2135.0	2086.6	2019.2	2001.9	1948.3	1901.6	1839.4	1778.9	1758.1	1753.0
17.5°	2211.1	2171.3	2131.6	2105.6	2062.4	2005.4	1918.9	1849.8	1803.1	1797.9
20°	2273.3	2221.5	2212.8	2228.4	2174.8	2136.7	2031.3	1946.6	1884.3	1858.4
22.5°	2311.3	2278.5	2302.7	2316.5	2313.1	2249.1	2140.2	2041.7	1963.9	1939.7
25°	2352.8	2314.8	2401.2	2447.9	2460.0	2354.6	2269.9	2140.2	2064.1	2048.6
27.5°	2373.6	2387.4	2487.7	2586.2	2577.6	2496.3	2382.2	2266.4	2205.9	2178.2
30°	2434.1	2456.6	2608.7	2719.3	2721.1	2641.5	2555.1	2423.7	2356.3	2344.2
32.5°	2543.0	2570.7	2733.2	2850.7	2871.5	2811.0	2724.5	2643.3	2574.1	2546.5
35°	2626.0	2696.9	2880.1	2987.3	3042.6	3006.3	2957.9	2873.2	2800.6	2776.4
37.5°	2745.3	2843.8	3020.1	3165.4	3227.6	3224.1	3187.8	3096.2	3035.7	3015.0
40°	2916.4	3015.0	3175.7	3367.6	3483.4	3478.3	3457.5	3386.6	3296.7	3286.4
42.5°	3097.9	3179.2	3388.4	3607.9	3773.9	3756.6	3701.3	3618.3	3556.1	3542.2
45°	3274.3	3400.5	3594.1	3875.9	4000.3	4043.6	3977.9	3836.1	3765.2	3756.6
47.5°	3495.5	3595.8	3837.8	4090.2	4275.2	4282.1	4169.8	4038.4	3908.7	3936.4
50°	3692.6	3825.7	4071.2	4347.8	4569.1	4489.6	4346.1	4181.9	4088.5	4052.2
52.5°	3903.5	4066.0	4351.3	4633.1	4755.8	4676.3	4442.9	4259.7	4117.9	4102.3
55°	4211.3	4296.0	4669.4	4885.5	4925.2	4757.5	4413.5	4154.2	3971.0	3926.0
57.5°	4524.2	4622.7	4949.4	5136.1	5094.6	4712.6	4223.4	3822.3	3582.0	3518.0
60°	4840.5	4961.5	5236.4	5407.6	5193.2	4403.1	3685.7	3168.8	2888.8	2831.7
62.5°	5193.2	5350.5	5596.0	5656.5	4901.0	3791.2	2925.1	2287.1	2003.6	1908.5
65°	5506.1	5666.9	5969.4	5604.6	4280.4	2828.2	1891.3	1306.9	1097.8	1021.7
67.5°	5763.7	5945.2	6093.9	4959.8	3134.2	1656.1	985.4	688.0	610.3	582.6
70°	5967.7	6270.2	5575.2	3645.9	1791.0	807.3	532.5	452.9	442.6	435.6
72.5°	5789.6	5749.8	4162.8	2103.9	784.9	444.3	385.5	373.4	371.7	373.4
75°	4735.1	4223.4	2489.4	914.5	394.2	321.5	319.8	314.6	323.3	323.3
77.5°	2297.5	2008.8	1040.7	392.4	259.3	252.4	261.0	261.0	261.0	261.0
80°	532.5	589.5	371.7	238.6	188.4	188.4	207.5	209.2	200.5	197.1
82.5°	181.5	242.0	204.0	150.4	124.5	140.0	157.3	160.8	133.1	134.8
85°	89.9	141.8	110.6	86.4	64.0	86.4	102.0	107.2	91.6	88.2
87.5°	41.5	62.2	41.5	29.4	22.5	31.1	29.4	24.2	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)