

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: P478431

Luminaire Tested: **IFLD-S-SA3C-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

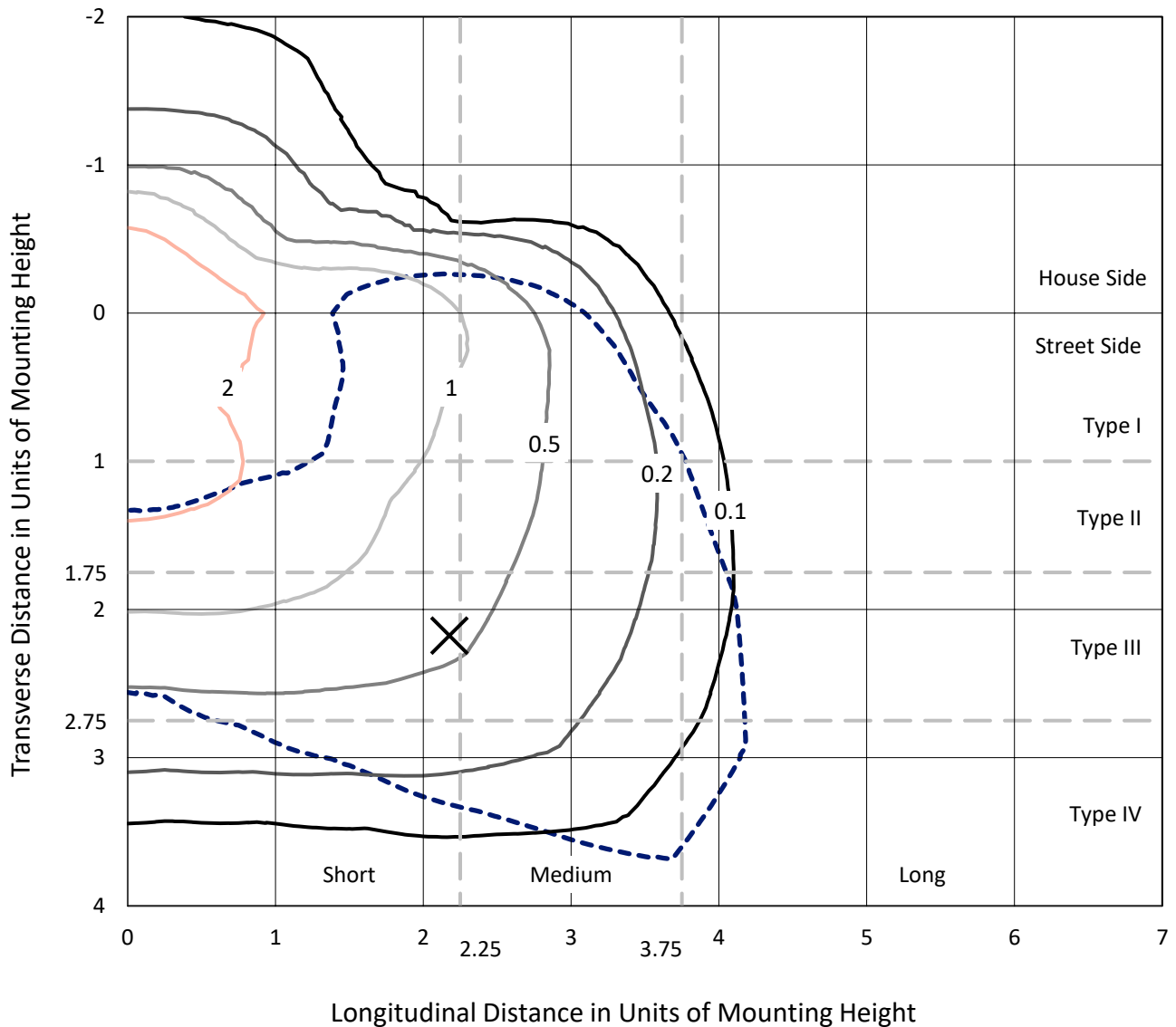
Lumens per Lamp: N/A
Luminaire Lumens: 17905.5 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

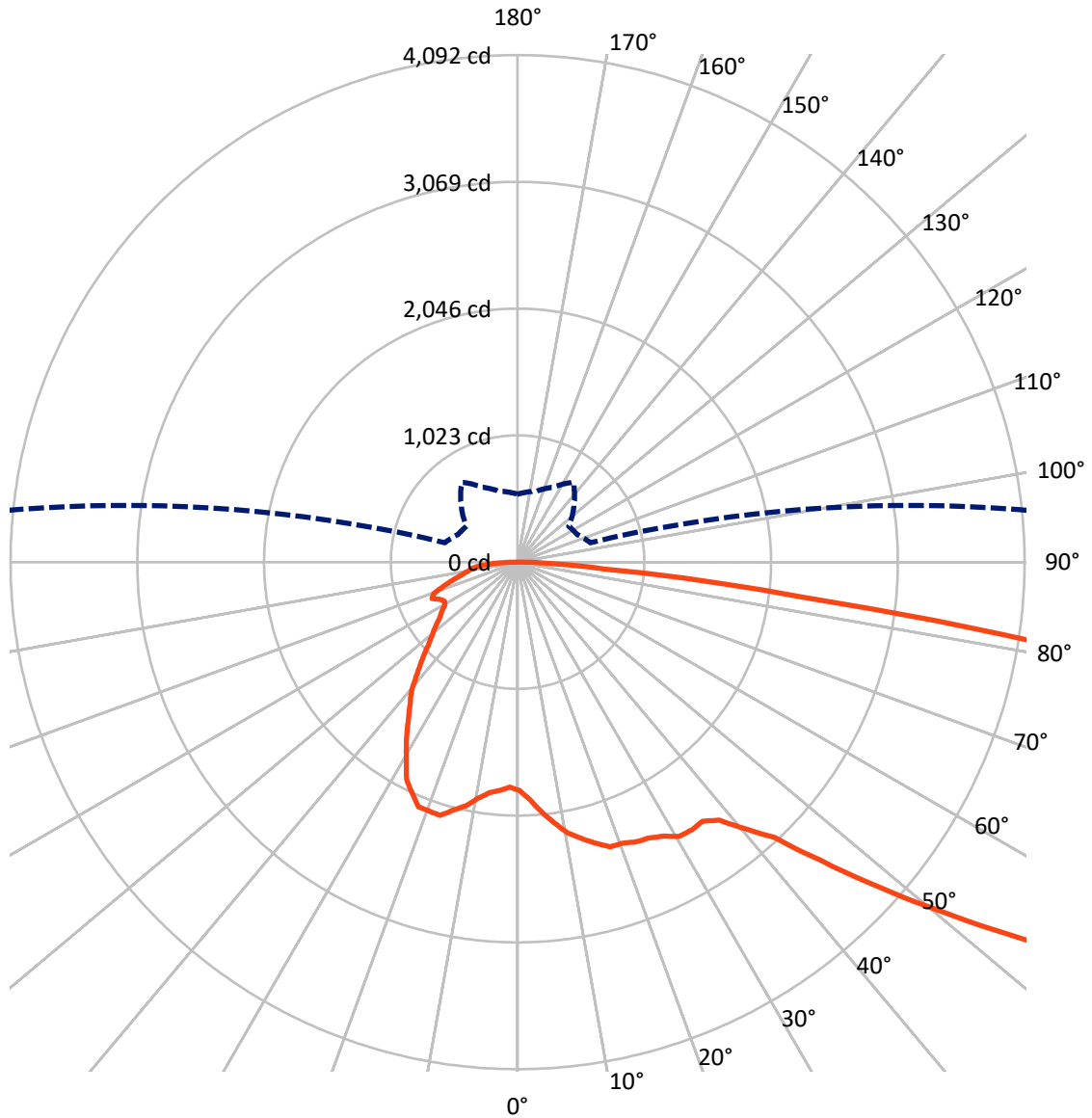
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3985.9	0.0	3985.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13919.6	0.0	13919.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	17905.5	0.0	17905.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	1.1
10°-20°	627.8	3.5
20°-30°	1060.1	5.9
30°-40°	1467.0	8.2
40°-50°	2098.5	11.7
50°-60°	3384.6	18.9
60°-70°	4991.8	27.9
70°-80°	3624.9	20.2
80°-90°	462.1	2.6
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°	17905.5	100.0
0°-180°	17905.5	100.0

Coefficient of Utilization



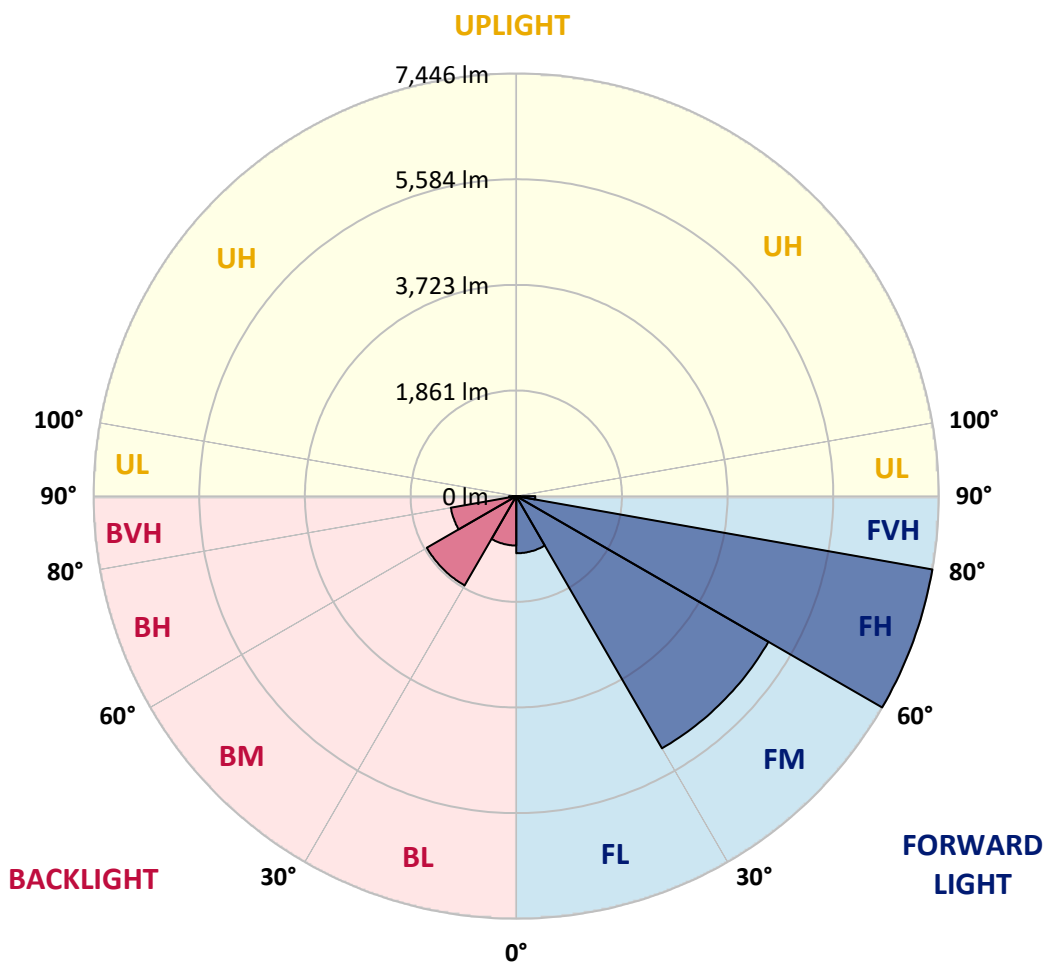
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.3	5.6			
FM (30°-60°)	5131.1	28.7			
FH (60°-80°)	7445.9	41.6			G3/7500
FVH (80°-90°)	336.3	1.9			G3/500
BL (0°-30°)	870.3	4.9	B2/1000		
BM (30°-60°)	1819.0	10.2	B2/2500		
BH (60°-80°)	1170.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	125.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9
2.5°	1942.4	1954.0	1942.4	1940.5	1921.2	1907.7	1919.2	1901.9	1882.6	1874.8	1857.5
5°	2120.0	2122.0	2100.7	2102.7	2062.1	2019.6	2027.4	1975.2	1919.2	1898.0	1863.2
7.5°	2301.5	2280.3	2249.4	2239.8	2176.0	2129.7	2123.9	2077.6	1990.7	1942.4	1894.1
10°	2419.3	2427.0	2376.8	2334.4	2280.3	2224.3	2222.4	2135.5	2085.3	2013.8	1952.1
12.5°	2523.6	2525.5	2483.0	2415.5	2347.9	2278.4	2288.0	2249.4	2164.5	2096.9	2035.1
15°	2604.7	2593.1	2546.8	2485.0	2413.5	2359.5	2353.7	2320.9	2249.4	2193.4	2091.1
17.5°	2627.9	2622.1	2575.7	2510.1	2440.6	2400.0	2415.5	2361.4	2332.4	2282.2	2183.8
20°	2583.4	2569.9	2562.2	2488.8	2438.6	2434.8	2421.3	2432.8	2384.6	2338.2	2266.8
22.5°	2502.3	2496.6	2492.7	2434.8	2411.6	2429.0	2452.1	2469.5	2461.8	2417.4	2336.3
25°	2419.3	2446.4	2421.3	2394.2	2427.0	2471.5	2465.7	2521.7	2521.7	2508.1	2440.6
27.5°	2477.2	2459.9	2440.6	2427.0	2438.6	2508.1	2504.3	2571.9	2597.0	2571.9	2494.6
30°	2622.1	2604.7	2548.7	2488.8	2473.4	2548.7	2568.0	2627.9	2639.4	2577.7	2512.0
32.5°	2894.3	2884.7	2795.8	2620.1	2525.5	2568.0	2577.7	2645.2	2635.6	2597.0	2569.9
35°	3297.8	3265.0	3141.5	2844.1	2635.6	2593.1	2568.0	2622.1	2658.7	2639.4	2614.3
37.5°	3740.0	3703.3	3550.8	3174.3	2834.4	2660.7	2641.4	2685.8	2728.3	2718.6	2666.5
40°	4162.9	4162.9	4025.8	3587.5	3129.9	2824.8	2828.7	2778.5	2817.1	2799.7	2809.3
42.5°	4579.9	4564.5	4508.5	4072.1	3446.5	3099.0	3037.2	2911.7	2981.2	2975.4	2988.9
45°	5002.8	4991.2	4975.7	4523.9	3900.3	3469.7	3436.9	3211.0	3274.7	3247.6	3305.6
47.5°	5340.7	5354.2	5354.2	5027.9	4384.9	3964.0	3915.7	3558.5	3680.2	3693.7	3707.2
50°	5628.4	5634.1	5628.4	5508.6	4925.5	4529.7	4431.2	4068.2	4189.9	4296.1	4419.7
52.5°	6026.1	6033.8	6006.8	5960.5	5659.2	5124.4	5014.3	4610.8	4859.9	4971.9	5193.9
55°	6516.5	6458.6	6408.4	6443.2	6364.0	5779.0	5665.0	5170.7	5545.3	5694.0	6138.1
57.5°	6607.3	6657.5	6784.9	7061.0	7174.9	6416.1	6350.5	5858.1	6319.6	6449.0	7190.4
60°	6927.8	6844.8	7157.6	7756.1	7883.6	7246.4	7178.8	6611.1	7090.0	7225.1	8161.6
62.5°	7138.3	7134.4	7597.8	8308.3	8598.0	8107.5	7970.4	7590.1	7922.2	8053.5	9219.7
65°	7076.5	7132.5	7955.0	8632.7	9194.6	9086.5	9007.3	8431.9	8870.2	8858.6	9909.0
67.5°	6512.7	6671.0	7729.1	8866.3	10082.8	10279.7	10254.6	9615.5	9640.6	9395.4	10216.0
70°	5730.7	5676.6	6773.3	8623.1	10526.9	11695.0	11689.2	10496.0	10333.8	9513.2	9335.5
72°	4402.3	4342.4	5244.1	7404.7	10293.2	12260.7	12434.5	11106.1	10326.0	9024.7	7711.7
72.5°	3996.8	3944.7	4842.5	6970.3	10034.5	12407.5	12326.4	11129.3	10245.0	8794.9	7203.9
75°	1840.1	1780.2	2419.3	4267.1	7827.6	10994.1	11270.2	10414.9	8947.4	7001.2	4315.4
77.5°	548.4	531.0	778.1	1722.3	4549.0	8099.8	8206.0	7858.5	6246.2	3834.6	1600.7
80°	305.1	307.0	401.6	644.9	2000.3	4682.2	5064.6	4854.1	3064.2	1266.6	532.9
82.5°	169.9	179.6	251.0	382.3	919.1	2149.0	2313.1	2230.1	1108.3	594.7	291.6
85°	88.8	92.7	131.3	204.7	521.3	679.7	699.0	749.2	575.4	405.5	156.4
87.5°	34.8	34.8	48.3	85.0	193.1	210.5	189.2	229.8	330.2	262.6	77.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9	1843.9
2.5°	1872.9	1857.5	1855.5	1830.4	1838.1	1816.9	1818.8	1815.0	1816.9	1813.0	1803.4
5°	1863.2	1851.7	1818.8	1840.1	1820.8	1847.8	1869.0	1861.3	1867.1	1865.2	1867.1
7.5°	1876.8	1861.3	1857.5	1845.9	1863.2	1874.8	1892.2	1940.5	1936.6	1942.4	1954.0
10°	1917.3	1899.9	1888.3	1905.7	1896.1	1932.8	1952.1	1977.2	2021.6	2023.5	2000.3
12.5°	1996.5	1984.9	1961.7	1965.6	1998.4	2010.0	2021.6	2037.0	2066.0	2060.2	2081.4
15°	2087.2	2062.1	2048.6	2044.7	2052.5	2066.0	2064.1	2079.5	2094.9	2108.5	2102.7
17.5°	2152.9	2120.0	2123.9	2143.2	2141.3	2137.4	2112.3	2104.6	2112.3	2120.0	2116.2
20°	2220.4	2224.3	2195.3	2178.0	2170.2	2131.6	2112.3	2089.2	2066.0	2077.6	2094.9
22.5°	2305.4	2288.0	2245.5	2193.4	2154.8	2131.6	2071.8	2031.2	2031.2	2042.8	2037.0
25°	2401.9	2365.3	2291.9	2197.3	2149.0	2050.5	2008.1	2002.3	1986.8	2004.2	2011.9
27.5°	2477.2	2444.4	2344.0	2183.8	2050.5	1971.4	1946.3	1938.5	1963.6	1965.6	1996.5
30°	2508.1	2498.5	2351.7	2149.0	1950.1	1822.7	1807.3	1842.0	1869.0	1909.6	1911.5
32.5°	2548.7	2552.5	2363.3	2067.9	1818.8	1691.4	1668.2	1710.7	1787.9	1820.8	1845.9
35°	2616.3	2635.6	2353.7	1967.5	1679.8	1558.2	1554.3	1565.9	1641.2	1699.1	1731.9
37.5°	2734.0	2730.2	2351.7	1847.8	1569.8	1442.3	1411.4	1415.3	1465.5	1513.8	1508.0
40°	2892.4	2876.9	2346.0	1691.4	1426.9	1343.9	1291.7	1272.4	1268.6	1255.0	1258.9
42.5°	3108.6	3077.7	2344.0	1533.1	1297.5	1208.7	1172.0	1121.8	1085.1	1015.6	1019.5
45°	3409.8	3355.8	2293.8	1384.4	1170.1	1096.7	1040.7	1004.0	924.9	838.0	838.0
47.5°	3875.2	3699.5	2295.7	1220.3	1046.5	986.7	948.0	884.3	799.4	729.9	722.1
50°	4560.6	4159.0	2230.1	1090.9	946.1	905.6	865.0	791.6	710.5	662.3	668.1
52.5°	5444.9	4844.4	2228.2	975.1	866.9	838.0	793.6	727.9	668.1	637.2	625.6
55°	6499.2	5751.9	2297.7	880.5	785.8	770.4	751.1	697.0	639.1	612.1	610.1
57.5°	7578.5	6638.2	2409.7	812.9	716.3	727.9	714.4	671.9	625.6	594.7	590.8
60°	8538.1	7341.0	2183.8	731.8	654.5	679.7	699.0	662.3	637.2	635.2	621.7
62.5°	9262.2	7642.2	1660.5	670.0	621.7	668.1	720.2	743.4	731.8	747.2	749.2
65°	9526.7	7460.7	1143.0	637.2	596.6	695.1	810.9	803.2	735.6	706.7	722.1
67.5°	9156.0	6725.1	847.6	598.6	579.2	751.1	863.1	766.5	664.2	660.3	648.8
70°	7873.9	5699.8	691.2	558.0	550.3	720.2	839.9	710.5	625.6	600.5	588.9
72°	6273.2	4439.0	606.3	529.0	503.9	643.0	785.8	666.1	592.8	561.9	548.4
72.5°	5726.8	4114.6	594.7	515.5	494.3	625.6	758.8	652.6	585.0	558.0	536.8
75°	3141.5	2106.5	523.3	473.1	417.1	540.6	702.8	612.1	552.2	513.6	509.7
77.5°	1168.1	816.7	451.8	419.0	361.1	467.3	639.1	581.2	502.0	453.7	444.1
80°	448.0	430.6	368.8	353.3	303.1	409.3	588.9	521.3	426.7	378.4	363.0
82.5°	272.2	251.0	280.0	276.1	231.7	372.6	554.1	488.5	378.4	307.0	297.3
85°	148.7	148.7	195.0	187.3	162.2	297.3	419.0	324.4	239.4	196.9	200.8
87.5°	65.6	77.2	104.3	98.5	88.8	168.0	204.7	171.8	119.7	81.1	86.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)