

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: P478545

Luminaire Tested: **IFLD-S-SA2E-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478545
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

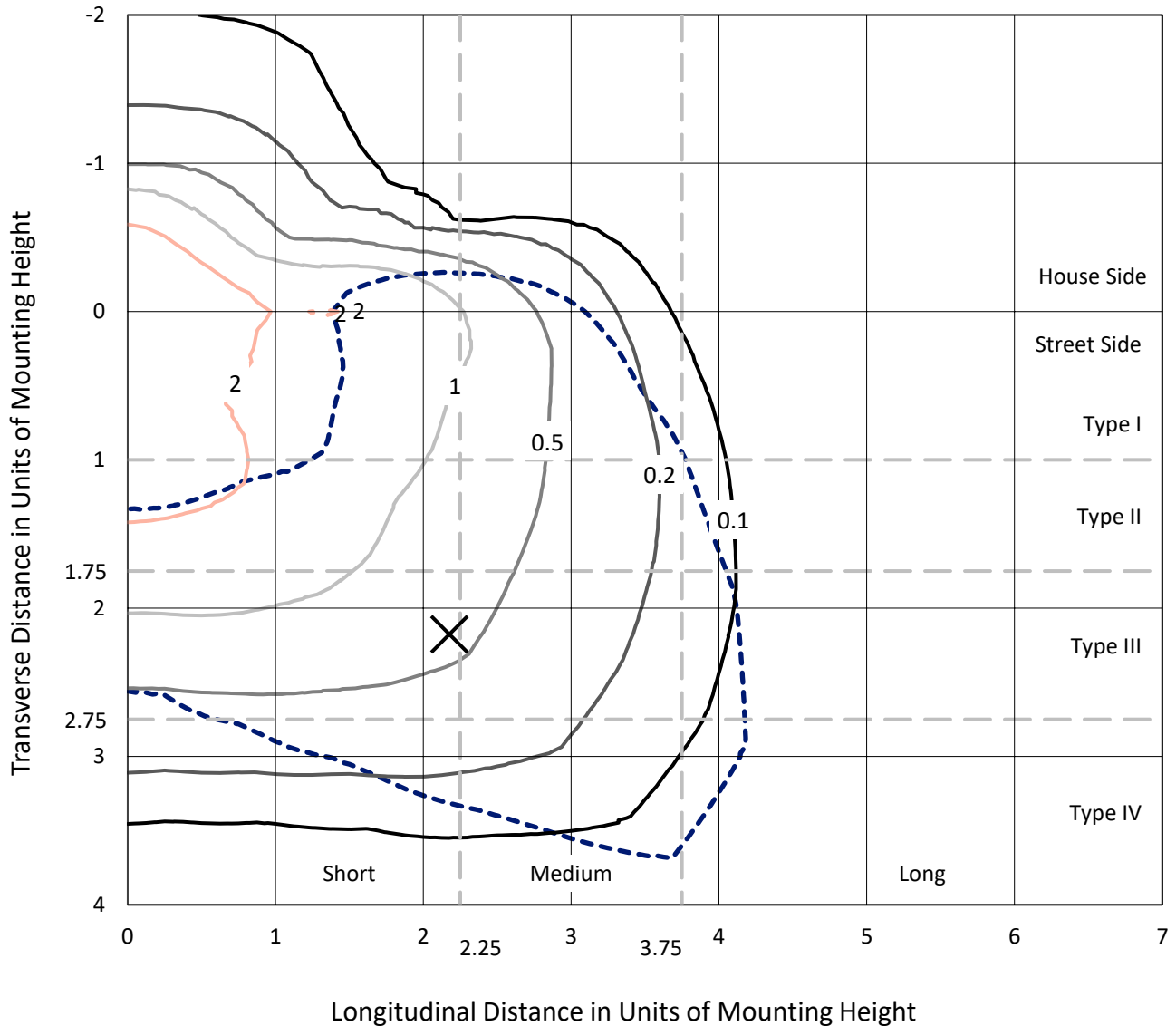
Lumens per Lamp: N/A
Luminaire Lumens: 18294.5 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 156.2
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

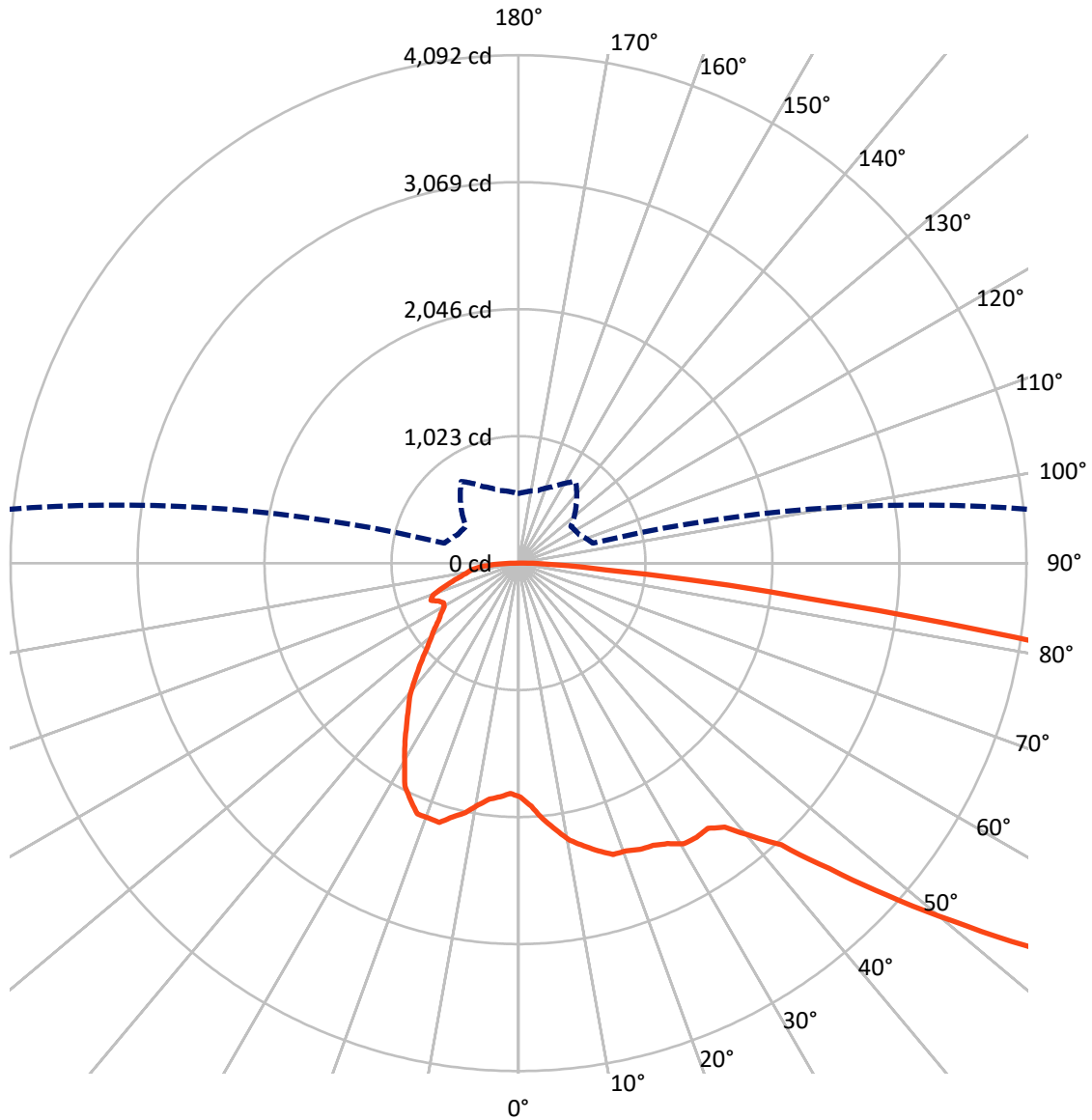
× Max cd
 - - - 1/2 Max cd



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	4072.5	0.0	4072.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14222.0	0.0	14222.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	18294.5	0.0	18294.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	1.1
10°-20°	641.4	3.5
20°-30°	1083.2	5.9
30°-40°	1498.9	8.2
40°-50°	2144.1	11.7
50°-60°	3458.1	18.9
60°-70°	5100.2	27.9
70°-80°	3703.6	20.2
80°-90°	472.1	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°	18294.5	100.0
0°-180°	18294.5	100.0

Coefficient of Utilization



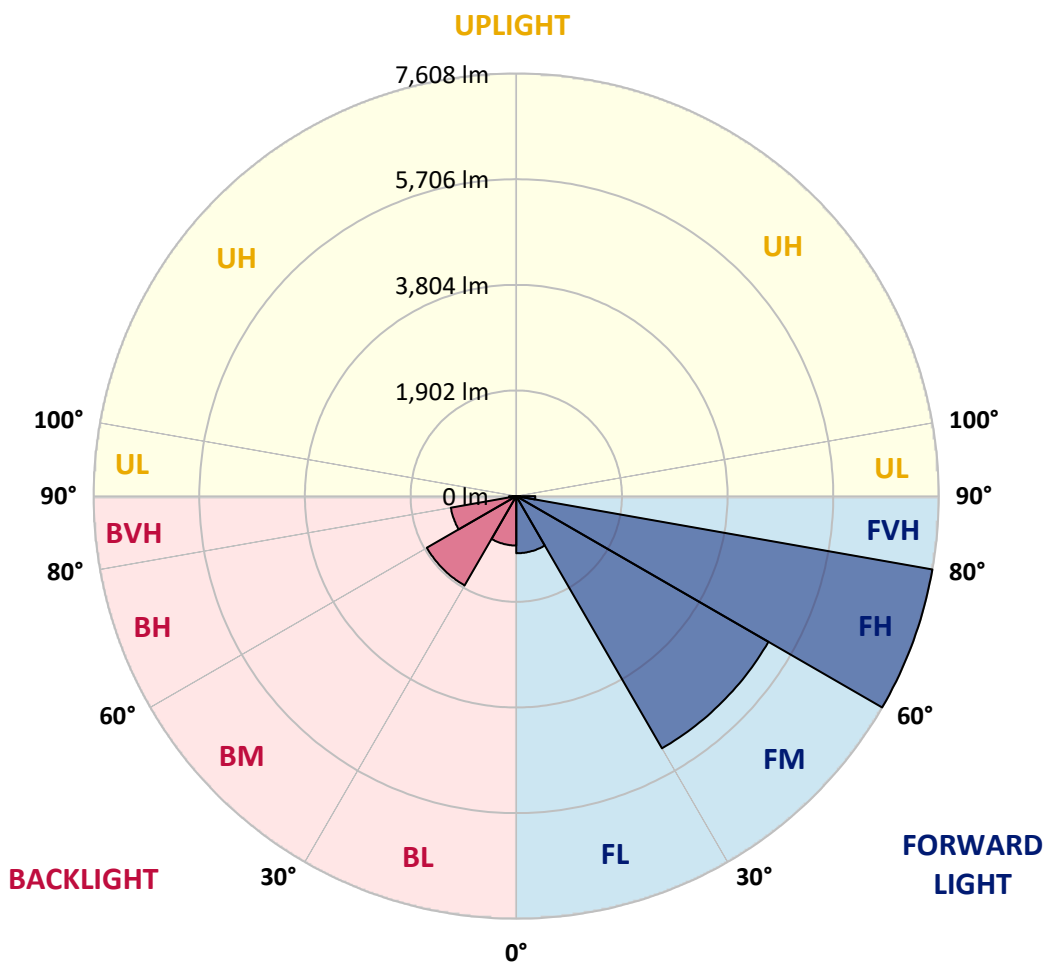
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.2	5.6			
FM (30°-60°)	5242.6	28.7			
FH (60°-80°)	7607.7	41.6			G4/12000
FVH (80°-90°)	343.6	1.9			G3/500
BL (0°-30°)	889.2	4.9	B2/1000		
BM (30°-60°)	1858.5	10.2	B2/2500		
BH (60°-80°)	1196.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	128.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0
2.5°	1984.6	1996.4	1984.6	1982.6	1962.9	1949.1	1960.9	1943.2	1923.5	1915.6	1897.8
5°	2166.1	2168.1	2146.4	2148.4	2106.9	2063.5	2071.4	2018.1	1960.9	1939.2	1903.7
7.5°	2351.5	2329.8	2298.3	2288.4	2223.3	2176.0	2170.1	2122.7	2033.9	1984.6	1935.3
10°	2471.9	2479.8	2428.5	2385.1	2329.8	2272.6	2270.7	2181.9	2130.6	2057.6	1994.5
12.5°	2578.4	2580.4	2537.0	2467.9	2398.9	2327.9	2337.7	2298.3	2211.5	2142.4	2079.3
15°	2661.3	2649.4	2602.1	2539.0	2466.0	2410.7	2404.8	2371.3	2298.3	2241.1	2136.5
17.5°	2684.9	2679.0	2631.7	2564.6	2493.6	2452.2	2467.9	2412.7	2383.1	2331.8	2231.2
20°	2639.6	2625.8	2617.9	2542.9	2491.6	2487.7	2473.9	2485.7	2436.4	2389.0	2316.0
22.5°	2556.7	2550.8	2546.9	2487.7	2464.0	2481.8	2505.4	2523.2	2515.3	2469.9	2387.1
25°	2471.9	2499.5	2473.9	2446.2	2479.8	2525.2	2519.2	2576.4	2576.4	2562.6	2493.6
27.5°	2531.1	2513.3	2493.6	2479.8	2491.6	2562.6	2558.7	2627.7	2653.4	2627.7	2548.8
30°	2679.0	2661.3	2604.1	2542.9	2527.1	2604.1	2623.8	2684.9	2696.8	2633.7	2566.6
32.5°	2957.2	2947.3	2856.6	2677.1	2580.4	2623.8	2633.7	2702.7	2692.8	2653.4	2625.8
35°	3369.5	3336.0	3209.7	2905.9	2692.8	2649.4	2623.8	2679.0	2716.5	2696.8	2671.1
37.5°	3821.3	3783.8	3627.9	3243.2	2896.0	2718.5	2698.8	2744.1	2787.5	2777.7	2724.4
40°	4253.3	4253.3	4113.2	3665.4	3197.9	2886.2	2890.1	2838.8	2878.3	2860.5	2870.4
42.5°	4679.4	4663.6	4606.4	4160.6	3521.4	3166.3	3103.2	2974.9	3046.0	3040.0	3053.9
45°	5111.5	5099.6	5083.8	4622.2	3985.0	3545.1	3511.5	3280.7	3345.8	3318.2	3377.4
47.5°	5456.7	5470.5	5470.5	5137.1	4480.2	4050.1	4000.8	3635.8	3760.1	3773.9	3787.7
50°	5750.6	5756.6	5750.6	5628.3	5032.5	4628.1	4527.5	4156.6	4280.9	4389.4	4515.7
52.5°	6157.0	6164.9	6137.3	6090.0	5782.2	5235.7	5123.3	4711.0	4965.5	5079.9	5306.8
55°	6658.1	6598.9	6547.6	6583.1	6502.3	5904.5	5788.1	5283.1	5665.8	5817.7	6271.4
57.5°	6750.8	6802.1	6932.3	7214.4	7330.8	6555.5	6488.5	5985.4	6456.9	6589.1	7346.6
60°	7078.3	6993.5	7313.1	7924.6	8054.8	7403.8	7334.8	6754.8	7244.0	7382.1	8338.9
62.5°	7293.3	7289.4	7762.9	8488.8	8784.8	8283.7	8143.6	7755.0	8094.3	8228.4	9420.0
65°	7230.2	7287.4	8127.8	8820.3	9394.4	9283.9	9203.0	8615.1	9062.9	9051.1	10124.3
67.5°	6654.2	6815.9	7897.0	9059.0	10301.8	10503.1	10477.4	9824.4	9850.1	9599.5	10437.9
70°	5855.2	5800.0	6920.5	8810.4	10755.6	11949.1	11943.2	10724.0	10558.3	9719.9	9538.4
72°	4497.9	4436.8	5358.1	7565.6	10516.9	12527.1	12704.7	11347.4	10550.4	9220.7	7879.3
72.5°	4083.6	4030.4	4947.7	7121.7	10252.5	12677.0	12594.2	11371.1	10467.5	8986.0	7360.4
75°	1880.1	1818.9	2471.9	4359.8	7997.6	11233.0	11515.1	10641.1	9141.8	7153.3	4409.2
77.5°	560.3	542.5	795.0	1759.7	4647.9	8275.8	8384.3	8029.2	6381.9	3917.9	1635.4
80°	311.7	313.7	410.3	658.9	2043.8	4784.0	5174.6	4959.6	3130.8	1294.1	544.5
82.5°	173.6	183.5	256.5	390.6	939.0	2195.7	2363.4	2278.6	1132.4	607.6	297.9
85°	90.7	94.7	134.1	209.1	532.6	694.4	714.1	765.4	587.9	414.3	159.8
87.5°	35.5	35.5	49.3	86.8	197.3	215.0	193.3	234.8	337.3	268.3	78.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0	1884.0
2.5°	1913.6	1897.8	1895.8	1870.2	1878.1	1856.4	1858.4	1854.4	1856.4	1852.4	1842.6
5°	1903.7	1891.9	1858.4	1880.1	1860.3	1887.9	1909.6	1901.8	1907.7	1905.7	1907.7
7.5°	1917.5	1901.8	1897.8	1886.0	1903.7	1915.6	1933.3	1982.6	1978.7	1984.6	1996.4
10°	1959.0	1941.2	1929.4	1947.1	1937.3	1974.7	1994.5	2020.1	2065.5	2067.5	2043.8
12.5°	2039.8	2028.0	2004.3	2008.3	2041.8	2053.7	2065.5	2081.3	2110.9	2105.0	2126.7
15°	2132.6	2106.9	2093.1	2089.2	2097.1	2110.9	2108.9	2124.7	2140.5	2154.3	2148.4
17.5°	2199.6	2166.1	2170.1	2189.8	2187.8	2183.9	2158.2	2150.3	2158.2	2166.1	2162.2
20°	2268.7	2272.6	2243.0	2225.3	2217.4	2177.9	2158.2	2134.5	2110.9	2122.7	2140.5
22.5°	2355.5	2337.7	2294.3	2241.1	2201.6	2177.9	2116.8	2075.4	2075.4	2087.2	2081.3
25°	2454.1	2416.6	2341.7	2245.0	2195.7	2095.1	2051.7	2045.8	2030.0	2047.7	2055.6
27.5°	2531.1	2497.5	2394.9	2231.2	2095.1	2014.2	1988.6	1980.7	2006.3	2008.3	2039.8
30°	2562.6	2552.8	2402.8	2195.7	1992.5	1862.3	1846.5	1882.0	1909.6	1951.1	1953.0
32.5°	2604.1	2608.0	2414.7	2112.8	1858.4	1728.2	1704.5	1747.9	1826.8	1860.3	1886.0
35°	2673.1	2692.8	2404.8	2010.3	1716.3	1592.0	1588.1	1599.9	1676.9	1736.0	1769.6
37.5°	2793.4	2789.5	2402.8	1887.9	1603.9	1473.7	1442.1	1446.0	1497.3	1546.7	1540.7
40°	2955.2	2939.4	2396.9	1728.2	1457.9	1373.1	1319.8	1300.1	1296.1	1282.3	1286.2
42.5°	3176.2	3144.6	2394.9	1566.4	1325.7	1235.0	1197.5	1146.2	1108.7	1037.7	1041.6
45°	3483.9	3428.7	2343.7	1414.5	1195.5	1120.5	1063.3	1025.8	945.0	856.2	856.2
47.5°	3959.4	3779.8	2345.6	1246.8	1069.2	1008.1	968.6	903.5	816.7	745.7	737.8
50°	4659.7	4249.4	2278.6	1114.6	966.7	925.2	883.8	808.8	726.0	676.7	682.6
52.5°	5563.2	4949.7	2276.6	996.3	885.8	856.2	810.8	743.7	682.6	651.0	639.2
55°	6640.4	5876.9	2347.6	899.6	802.9	787.1	767.4	712.2	653.0	625.4	623.4
57.5°	7743.1	6782.4	2462.0	830.5	731.9	743.7	729.9	686.5	639.2	607.6	603.7
60°	8723.6	7500.5	2231.2	747.7	668.8	694.4	714.1	676.7	651.0	649.0	635.2
62.5°	9463.4	7808.2	1696.6	684.6	635.2	682.6	735.8	759.5	747.7	763.5	765.4
65°	9733.7	7622.8	1167.9	651.0	609.6	710.2	828.6	820.7	751.6	722.0	737.8
67.5°	9354.9	6871.2	866.0	611.6	591.8	767.4	881.8	783.2	678.6	674.7	662.9
70°	8045.0	5823.6	706.3	570.1	562.2	735.8	858.2	726.0	639.2	613.5	601.7
72°	6409.5	4535.4	619.5	540.5	514.9	656.9	802.9	680.6	605.6	574.1	560.3
72.5°	5851.2	4204.0	607.6	526.7	505.0	639.2	775.3	666.8	597.8	570.1	548.4
75°	3209.7	2152.3	534.6	483.3	426.1	552.4	718.1	625.4	564.2	524.8	520.8
77.5°	1193.5	834.5	461.6	428.1	368.9	477.4	653.0	593.8	512.9	463.6	453.7
80°	457.7	439.9	376.8	361.0	309.7	418.2	601.7	532.6	436.0	386.7	370.9
82.5°	278.2	256.5	286.1	282.1	236.7	380.7	566.2	499.1	386.7	313.7	303.8
85°	151.9	151.9	199.3	191.4	165.7	303.8	428.1	331.4	244.6	201.2	205.2
87.5°	67.1	78.9	106.5	100.6	90.7	171.6	209.1	175.6	122.3	82.9	88.8
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)