

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: P478667

Luminaire Tested: **IFLD-S-SA3E-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478667
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

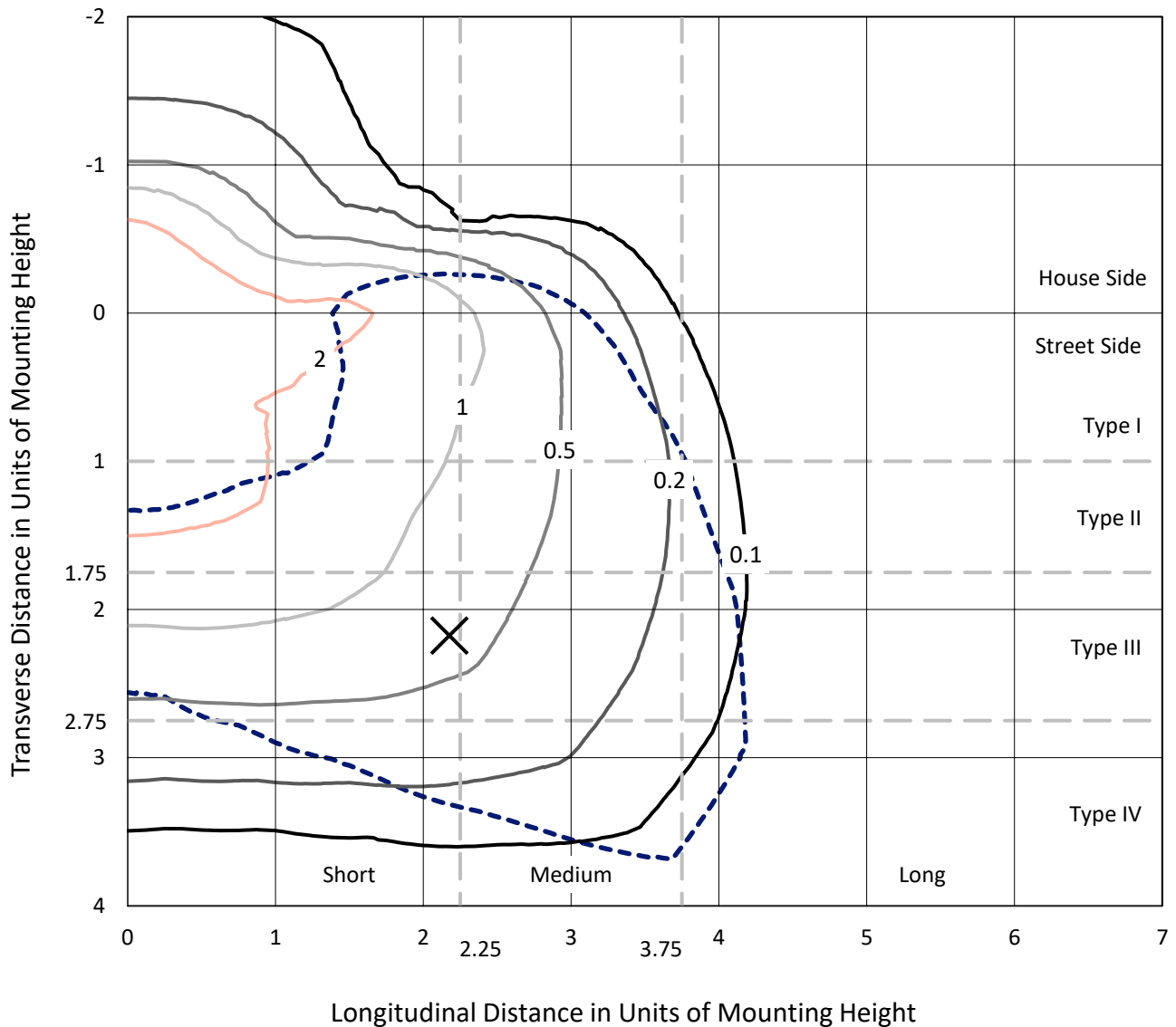
Lumens per Lamp: N/A
Luminaire Lumens: 20041.8 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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: P478667
 CATALOG NUMBER: IFLD-S-SA3E-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

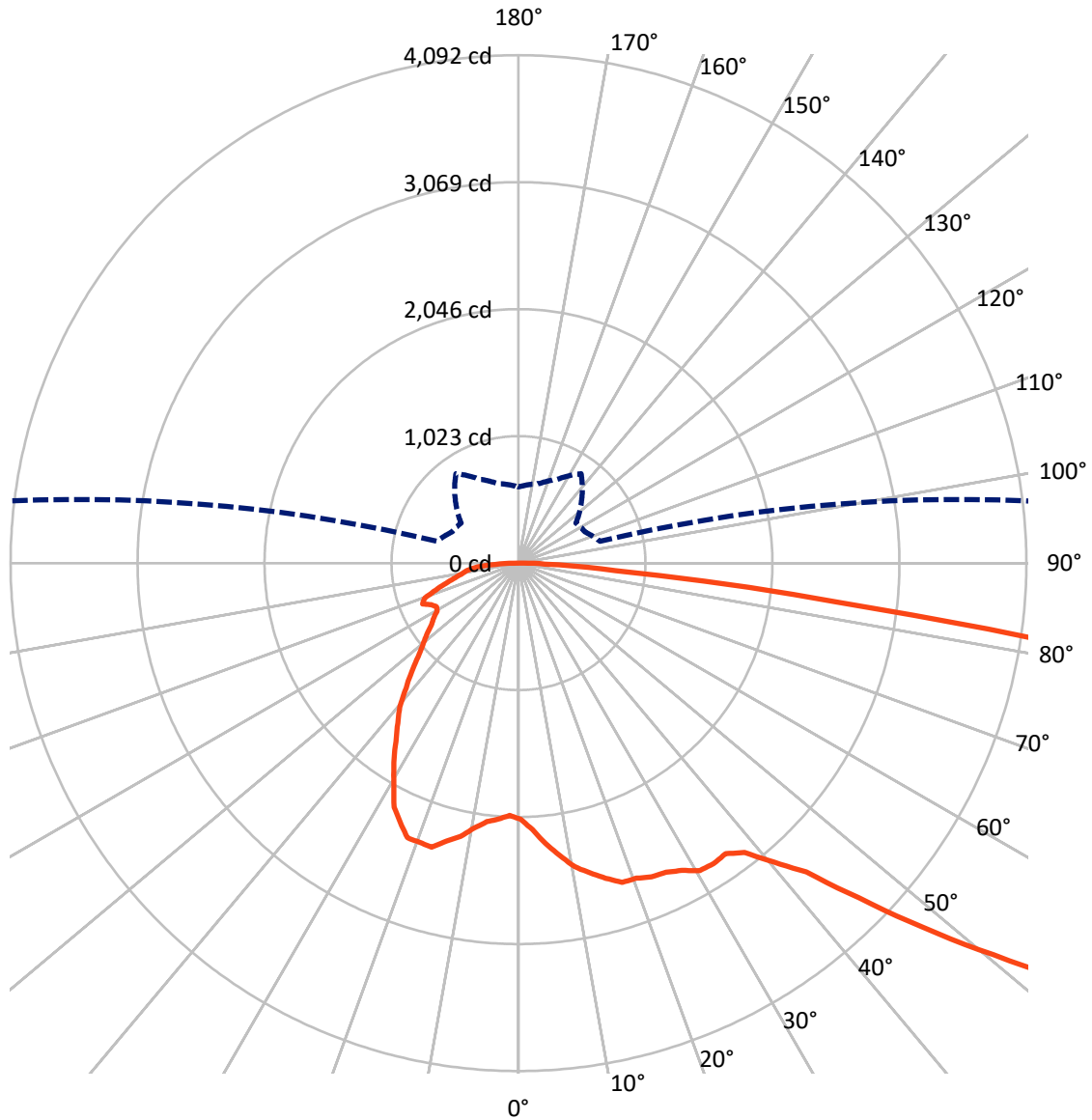
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P478667
CATALOG NUMBER: IFLD-S-SA3E-827-U-T4W

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	4461.4	0.0	4461.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	15580.4	0.0	15580.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	20041.8	0.0	20041.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	1.1
10°-20°	702.7	3.5
20°-30°	1186.6	5.9
30°-40°	1642.1	8.2
40°-50°	2348.8	11.7
50°-60°	3788.4	18.9
60°-70°	5587.4	27.9
70°-80°	4057.4	20.2
80°-90°	517.2	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°	20041.8	100.0
0°-180°	20041.8	100.0

Coefficient of Utilization



REPORT NUMBER: P478667

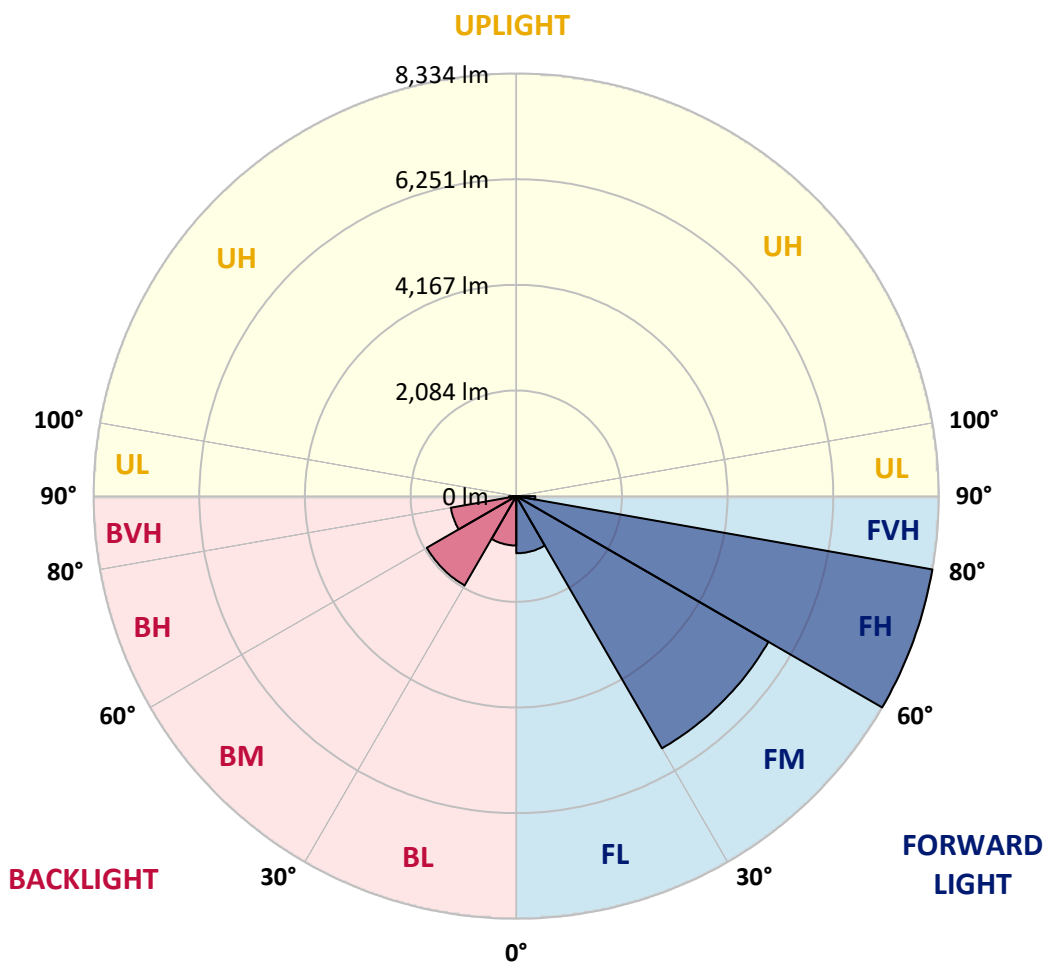
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.4	5.6			
FM (30°-60°)	5743.3	28.7			
FH (60°-80°)	8334.3	41.6			G4/12000
FVH (80°-90°)	376.5	1.9			G3/500
BL (0°-30°)	974.1	4.9	B2/1000		
BM (30°-60°)	2036.1	10.2	B2/2500		
BH (60°-80°)	1310.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	140.8	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°	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9
2.5°	2174.2	2187.1	2174.2	2172.0	2150.4	2135.3	2148.2	2128.8	2107.2	2098.5	2079.1
5°	2373.0	2375.2	2351.4	2353.5	2308.2	2260.6	2269.3	2210.9	2148.2	2124.5	2085.6
7.5°	2576.2	2552.4	2517.8	2507.0	2435.7	2383.8	2377.3	2325.5	2228.2	2174.2	2120.1
10°	2708.0	2716.6	2660.4	2612.9	2552.4	2489.7	2487.5	2390.3	2334.1	2254.1	2185.0
12.5°	2824.7	2826.9	2779.3	2703.7	2628.0	2550.2	2561.0	2517.8	2422.7	2347.1	2277.9
15°	2915.5	2902.5	2850.6	2781.5	2701.5	2641.0	2634.5	2597.8	2517.8	2455.1	2340.6
17.5°	2941.4	2934.9	2883.0	2809.6	2731.8	2686.4	2703.7	2643.1	2610.7	2554.5	2444.3
20°	2891.7	2876.6	2867.9	2785.8	2729.6	2725.3	2710.1	2723.1	2669.1	2617.2	2537.3
22.5°	2800.9	2794.4	2790.1	2725.3	2699.3	2718.8	2744.7	2764.2	2755.5	2705.8	2615.1
25°	2708.0	2738.2	2710.1	2679.9	2716.6	2766.3	2759.9	2822.5	2822.5	2807.4	2731.8
27.5°	2772.8	2753.4	2731.8	2716.6	2729.6	2807.4	2803.1	2878.7	2906.8	2878.7	2792.3
30°	2934.9	2915.5	2852.8	2785.8	2768.5	2852.8	2874.4	2941.4	2954.4	2885.2	2811.7
32.5°	3239.6	3228.8	3129.4	2932.8	2826.9	2874.4	2885.2	2960.8	2950.0	2906.8	2876.6
35°	3691.3	3654.6	3516.3	3183.5	2950.0	2902.5	2874.4	2934.9	2976.0	2954.4	2926.3
37.5°	4186.2	4145.2	3974.5	3553.0	3172.6	2978.1	2956.5	3006.2	3053.8	3043.0	2984.6
40°	4659.6	4659.6	4506.1	4015.5	3503.3	3161.8	3166.2	3110.0	3153.2	3133.7	3144.5
42.5°	5126.4	5109.1	5046.4	4558.0	3857.7	3468.7	3399.6	3259.1	3336.9	3330.4	3345.5
45°	5599.7	5586.7	5569.4	5063.7	4365.6	3883.7	3846.9	3594.1	3665.4	3635.1	3700.0
47.5°	5977.9	5993.0	5993.0	5627.8	4908.1	4436.9	4382.9	3983.1	4119.3	4134.4	4149.5
50°	6299.9	6306.4	6299.9	6165.9	5513.2	5070.2	4960.0	4553.7	4689.8	4808.7	4947.0
52.5°	6745.1	6753.8	6723.5	6671.6	6334.5	5735.8	5612.6	5160.9	5439.7	5565.1	5813.6
55°	7294.1	7229.2	7173.0	7211.9	7123.3	6468.5	6341.0	5787.7	6207.0	6373.4	6870.5
57.5°	7395.6	7451.8	7594.5	7903.5	8031.0	7181.7	7108.2	6557.1	7073.6	7218.4	8048.3
60°	7754.4	7661.5	8011.6	8681.5	8824.2	8111.0	8035.3	7400.0	7935.9	8087.2	9135.4
62.5°	7990.0	7985.6	8504.3	9299.7	9623.8	9074.9	8921.4	8495.7	8867.4	9014.4	10319.7
65°	7920.8	7983.5	8904.2	9662.7	10291.6	10170.6	10082.0	9438.0	9928.6	9915.6	11091.3
67.5°	7289.7	7467.0	8651.3	9924.2	11285.8	11506.2	11478.1	10762.8	10790.9	10516.4	11434.9
70°	6414.4	6353.9	7581.5	9651.9	11782.9	13090.4	13083.9	11748.3	11566.8	10648.2	10449.4
72°	4927.5	4860.5	5869.8	8288.2	11521.4	13723.6	13918.1	12431.2	11558.1	10101.5	8631.8
72.5°	4473.7	4415.3	5420.3	7801.9	11231.8	13887.9	13797.1	12457.2	11467.3	9844.3	8063.4
75°	2059.6	1992.6	2708.0	4776.3	8761.5	12305.9	12614.9	11657.5	10015.0	7836.5	4830.3
77.5°	613.8	594.3	871.0	1927.8	5091.8	9066.2	9185.1	8796.1	6991.5	4292.1	1791.6
80°	341.5	343.6	449.5	721.8	2239.0	5240.9	5668.8	5433.3	3429.8	1417.7	596.5
82.5°	190.2	201.0	281.0	427.9	1028.7	2405.4	2589.1	2496.2	1240.5	665.7	326.3
85°	99.4	103.7	147.0	229.1	583.5	760.7	782.4	838.5	644.0	453.9	175.1
87.5°	38.9	38.9	54.0	95.1	216.1	235.6	211.8	257.2	369.6	293.9	86.4
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°	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9	2063.9
2.5°	2096.4	2079.1	2076.9	2048.8	2057.5	2033.7	2035.9	2031.5	2033.7	2029.4	2018.6
5°	2085.6	2072.6	2035.9	2059.6	2038.0	2068.3	2092.0	2083.4	2089.9	2087.7	2089.9
7.5°	2100.7	2083.4	2079.1	2066.1	2085.6	2098.5	2118.0	2172.0	2167.7	2174.2	2187.1
10°	2146.1	2126.6	2113.7	2133.1	2122.3	2163.4	2185.0	2213.1	2262.8	2264.9	2239.0
12.5°	2234.7	2221.7	2195.8	2200.1	2236.8	2249.8	2262.8	2280.1	2312.5	2306.0	2329.8
15°	2336.3	2308.2	2293.0	2288.7	2297.4	2312.5	2310.3	2327.6	2344.9	2360.0	2353.5
17.5°	2409.7	2373.0	2377.3	2398.9	2396.8	2392.5	2364.4	2355.7	2364.4	2373.0	2368.7
20°	2485.4	2489.7	2457.3	2437.8	2429.2	2386.0	2364.4	2338.4	2312.5	2325.5	2344.9
22.5°	2580.5	2561.0	2513.5	2455.1	2411.9	2386.0	2319.0	2273.6	2273.6	2286.6	2280.1
25°	2688.5	2647.5	2565.3	2459.4	2405.4	2295.2	2247.6	2241.2	2223.9	2243.3	2252.0
27.5°	2772.8	2736.1	2623.7	2444.3	2295.2	2206.6	2178.5	2169.8	2197.9	2200.1	2234.7
30°	2807.4	2796.6	2632.3	2405.4	2182.8	2040.2	2022.9	2061.8	2092.0	2137.4	2139.6
32.5°	2852.8	2857.1	2645.3	2314.6	2035.9	1893.2	1867.3	1914.8	2001.3	2038.0	2066.1
35°	2928.4	2950.0	2634.5	2202.3	1880.2	1744.1	1739.8	1752.7	1837.0	1901.9	1938.6
37.5°	3060.3	3055.9	2632.3	2068.3	1757.1	1614.4	1579.8	1584.2	1640.4	1694.4	1687.9
40°	3237.5	3220.2	2625.9	1893.2	1597.1	1504.2	1445.8	1424.2	1419.9	1404.8	1409.1
42.5°	3479.5	3445.0	2623.7	1716.0	1452.3	1352.9	1311.8	1255.7	1214.6	1136.8	1141.1
45°	3816.7	3756.2	2567.5	1549.6	1309.7	1227.6	1164.9	1123.8	1035.2	938.0	938.0
47.5°	4337.5	4140.9	2569.7	1365.9	1171.4	1104.4	1061.2	989.8	894.7	816.9	808.3
50°	5104.8	4655.2	2496.2	1221.1	1059.0	1013.6	968.2	886.1	795.3	741.3	747.8
52.5°	6094.6	5422.5	2494.0	1091.4	970.4	938.0	888.3	814.8	747.8	713.2	700.2
55°	7274.6	6438.2	2571.8	985.5	879.6	862.3	840.7	780.2	715.4	685.1	682.9
57.5°	8482.7	7430.2	2697.2	909.9	801.8	814.8	799.6	752.1	700.2	665.7	661.3
60°	9556.8	8216.9	2444.3	819.1	732.6	760.7	782.4	741.3	713.2	711.0	695.9
62.5°	10367.3	8554.0	1858.6	749.9	695.9	747.8	806.1	832.1	819.1	836.4	838.5
65°	10663.4	8350.9	1279.4	713.2	667.8	778.0	907.7	899.1	823.4	791.0	808.3
67.5°	10248.4	7527.5	948.8	670.0	648.4	840.7	966.1	858.0	743.5	739.1	726.2
70°	8813.4	6379.9	773.7	624.6	615.9	806.1	940.1	795.3	700.2	672.1	659.2
72°	7021.7	4968.6	678.6	592.2	564.1	719.7	879.6	745.6	663.5	628.9	613.8
72.5°	6410.1	4605.5	665.7	577.0	553.3	700.2	849.4	730.5	654.8	624.6	600.8
75°	3516.3	2357.9	585.7	529.5	466.8	605.1	786.7	685.1	618.1	574.9	570.6
77.5°	1307.5	914.2	505.7	469.0	404.1	523.0	715.4	650.5	561.9	507.9	497.1
80°	501.4	481.9	412.8	395.5	339.3	458.2	659.2	583.5	477.6	423.6	406.3
82.5°	304.7	281.0	313.4	309.1	259.3	417.1	620.3	546.8	423.6	343.6	332.8
85°	166.4	166.4	218.3	209.6	181.5	332.8	469.0	363.1	268.0	220.4	224.8
87.5°	73.5	86.4	116.7	110.2	99.4	188.0	229.1	192.3	134.0	90.8	97.3
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)