

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: P481040

Luminaire Tested: **IFLD-S-SA2D-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481040
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

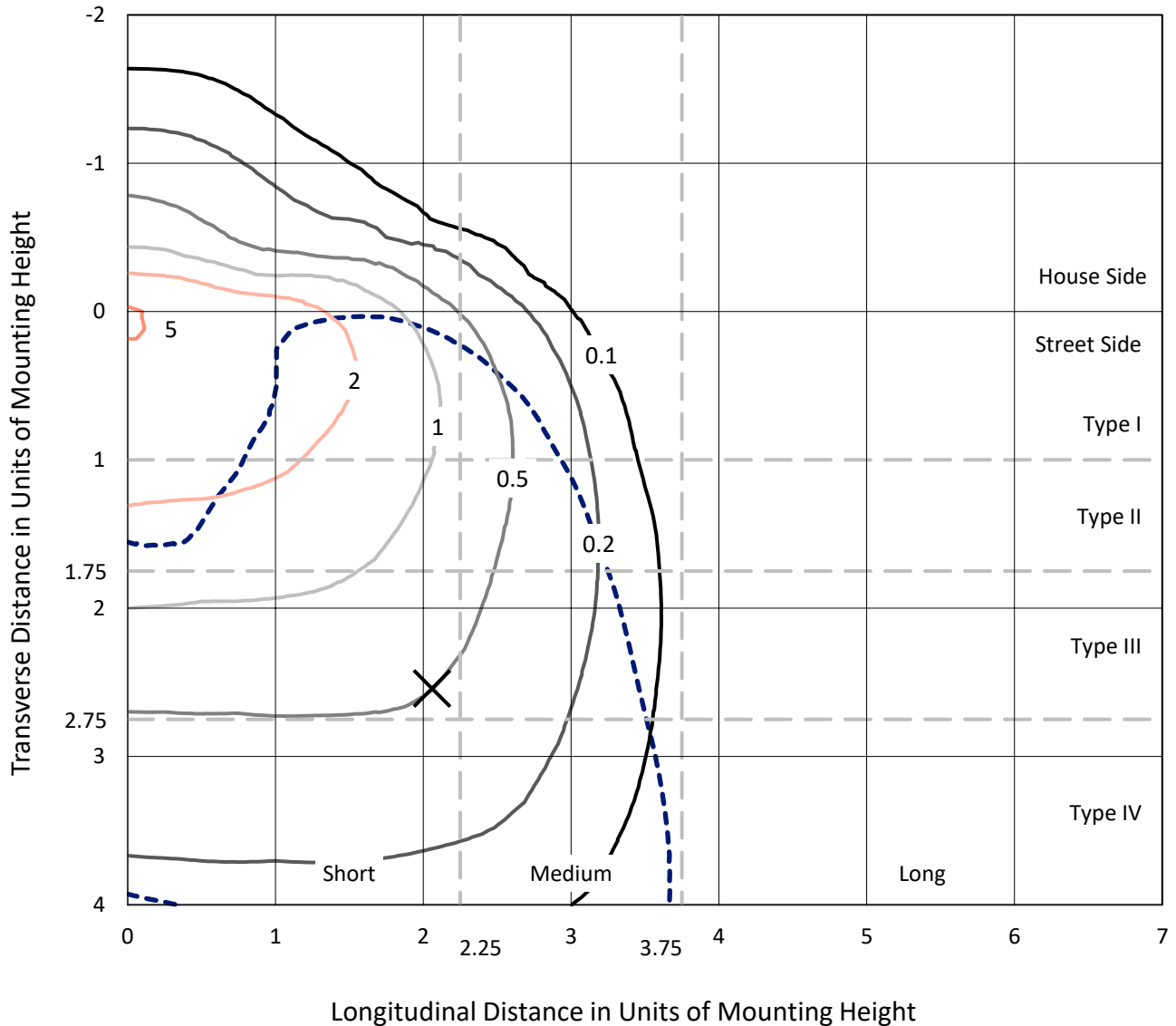
Lumens per Lamp: N/A
Luminaire Lumens: 12020.5 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 123.9
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

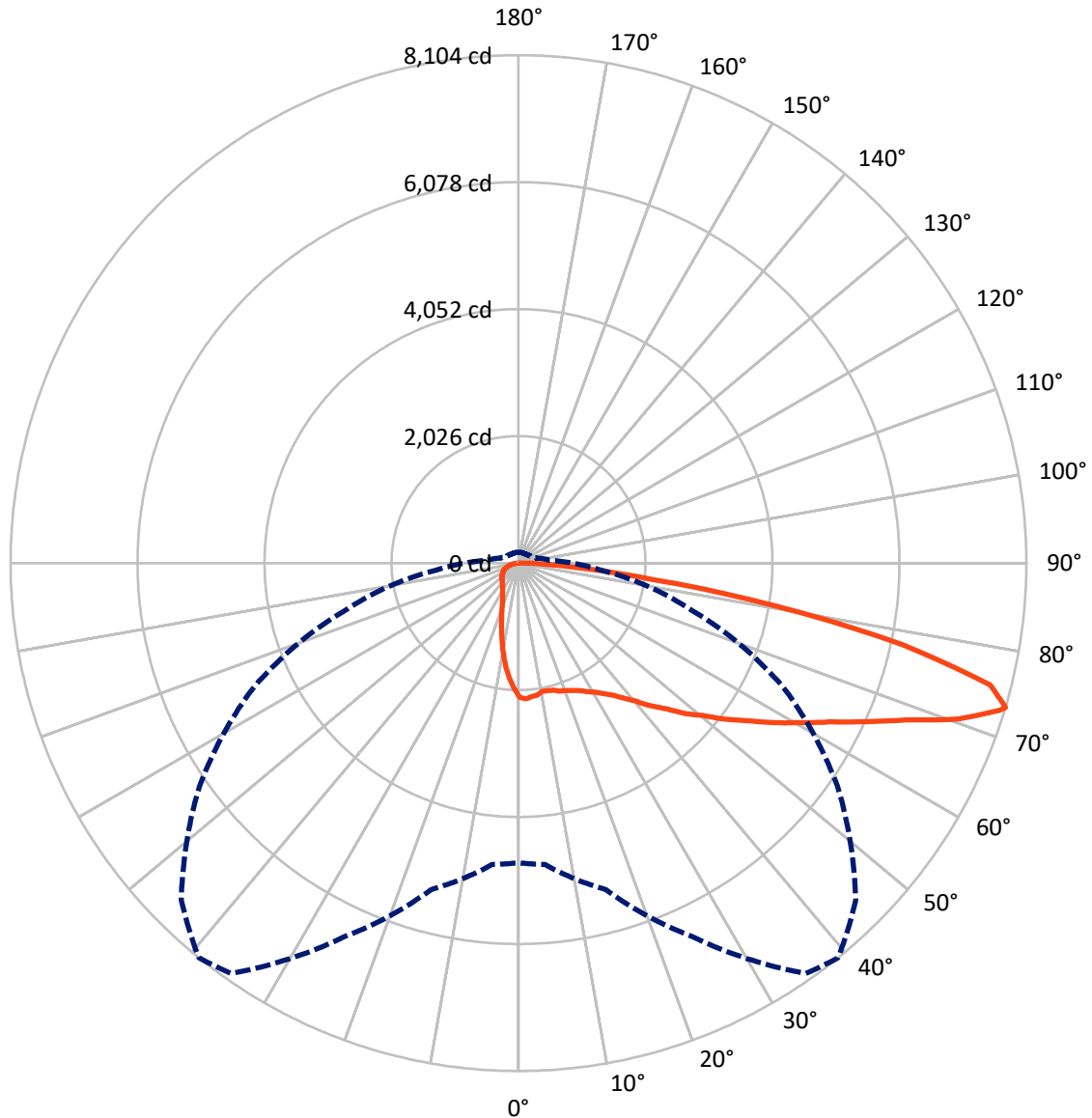
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1689.8	0.0	1689.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10330.8	0.0	10330.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	12020.5	0.0	12020.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.5
10°-20°	472.2	3.9
20°-30°	721.6	6.0
30°-40°	1052.1	8.8
40°-50°	1589.8	13.2
50°-60°	2302.1	19.2
60°-70°	2924.9	24.3
70°-80°	2371.1	19.7
80°-90°	401.2	3.3
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°	12020.5	100.0
0°-180°	12020.5	100.0

Coefficient of Utilization



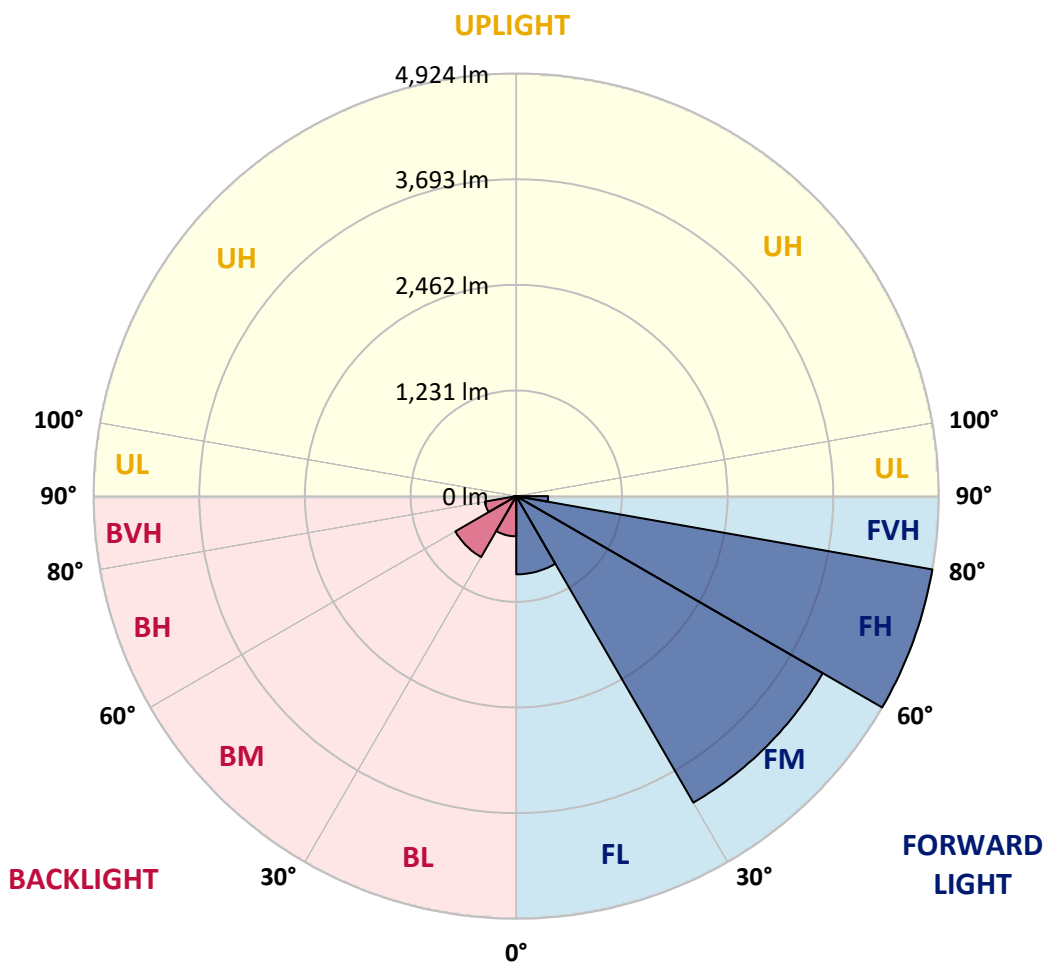
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.9	7.6			
FM (30°-60°)	4123.8	34.3			
FH (60°-80°)	4924.3	41.0			G2/5000
FVH (80°-90°)	371.7	3.1			G3/500
BL (0°-30°)	468.6	3.9	B1/500		
BM (30°-60°)	820.1	6.8	B1/1000		
BH (60°-80°)	371.6	3.1	B1/500		G1/500
BVH (80°-90°)	29.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7
2.5°	2190.8	2168.0	2172.0	2163.9	2172.0	2169.3	2165.3	2145.1	2165.3	2145.1	2139.7
5°	2161.2	2161.2	2174.7	2154.5	2157.2	2143.8	2157.2	2142.4	2129.0	2095.3	2085.9
7.5°	2151.8	2150.5	2151.8	2123.6	2137.0	2129.0	2115.5	2099.4	2072.5	2051.0	2020.0
10°	2087.3	2100.7	2085.9	2094.0	2104.8	2080.6	2079.2	2075.2	2063.1	2034.8	2016.0
12.5°	2052.3	2075.2	2083.2	2076.5	2085.9	2088.6	2080.6	2075.2	2060.4	2041.6	1987.8
15°	2067.1	2040.2	2063.1	2107.5	2098.0	2104.8	2106.1	2100.7	2094.0	2059.0	2024.1
17.5°	2071.1	2055.0	2103.4	2112.8	2124.9	2149.1	2133.0	2131.7	2106.1	2081.9	2030.8
20°	2080.6	2073.8	2112.8	2162.6	2163.9	2168.0	2176.0	2155.9	2142.4	2100.7	2022.7
22.5°	2115.5	2138.4	2174.7	2196.2	2208.3	2211.0	2211.0	2170.7	2155.9	2122.2	2060.4
25°	2220.4	2196.2	2247.3	2272.9	2255.4	2251.4	2241.9	2205.6	2189.5	2159.9	2077.9
27.5°	2297.1	2295.7	2325.3	2360.3	2313.2	2322.6	2289.0	2278.3	2241.9	2225.8	2108.8
30°	2402.0	2431.6	2430.2	2441.0	2379.1	2389.9	2346.8	2326.7	2306.5	2315.9	2200.3
32.5°	2536.5	2525.7	2543.2	2535.1	2473.3	2482.7	2431.6	2400.6	2407.4	2435.6	2325.3
35°	2622.5	2611.8	2618.5	2618.5	2599.7	2588.9	2567.4	2527.1	2559.3	2611.8	2465.2
37.5°	2715.3	2728.8	2767.8	2759.7	2735.5	2735.5	2732.8	2704.6	2746.3	2875.4	2688.4
40°	2797.4	2833.7	2857.9	2874.0	2902.3	2902.3	2925.2	2909.0	2984.3	3191.4	2961.5
42.5°	2883.5	2884.8	3016.6	3028.7	3091.9	3118.8	3136.3	3149.7	3291.0	3522.3	3253.3
45°	2993.7	3000.5	3116.1	3208.9	3307.1	3316.5	3382.4	3426.8	3600.3	3884.1	3570.7
47.5°	3139.0	3130.9	3254.7	3402.6	3525.0	3589.5	3668.9	3717.3	3931.1	4276.8	3917.7
50°	3330.0	3305.8	3377.0	3609.7	3753.6	3824.9	3966.1	4046.8	4296.9	4652.0	4155.7
52.5°	3562.6	3522.3	3578.8	3833.0	3994.3	4138.2	4272.7	4362.8	4623.8	4942.5	4331.9
55°	3808.7	3725.4	3741.5	4069.7	4302.3	4438.2	4622.4	4716.6	4982.8	5203.4	4508.1
57.5°	4052.2	3999.7	3967.4	4296.9	4669.5	4799.9	4969.4	5091.8	5317.7	5434.7	4657.4
60°	4256.6	4243.1	4190.7	4649.3	5058.2	5169.8	5347.3	5422.6	5593.4	5648.6	4660.1
62.5°	4424.7	4379.0	4462.4	4933.1	5453.6	5580.0	5775.0	5781.7	5902.8	5781.7	4522.9
65°	4556.5	4559.2	4692.3	5276.0	5910.8	6097.8	6255.1	6237.6	6159.6	5702.4	4198.8
67.5°	4676.2	4727.3	4922.3	5652.6	6498.5	6674.7	6849.6	6618.2	6229.6	5331.2	3565.3
70°	4770.3	4821.5	5233.0	6111.2	7191.2	7449.4	7488.4	6768.9	5908.1	4516.2	2689.8
72.5°	4759.6	4852.4	5409.2	6477.0	7805.8	8029.0	7714.3	6345.2	4922.3	3148.4	1569.5
73°	4782.5	4828.2	5394.4	6579.2	7992.7	8104.3	7609.4	6212.1	4642.6	2824.3	1327.4
75°	4341.3	4496.0	5126.7	6412.5	7792.3	7772.2	7006.9	5176.5	3300.4	1483.4	642.9
77.5°	3211.6	3309.8	4040.1	5273.3	6396.3	6267.2	5285.4	3308.4	1566.8	550.1	347.0
80°	1569.5	1646.2	2141.1	3044.8	4182.6	4193.4	3280.2	1721.5	671.1	310.7	236.7
82.5°	784.1	829.8	1028.8	1338.2	2057.7	2155.9	1663.6	979.1	415.6	176.2	134.5
85°	512.4	544.7	633.4	655.0	872.8	921.3	774.7	763.9	270.3	95.5	108.9
87.5°	340.3	345.6	388.7	330.8	349.7	336.2	373.9	481.5	79.3	40.3	29.6
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°	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7	2139.7
2.5°	2133.0	2114.2	2094.0	2065.8	2045.6	2014.7	1986.4	1974.3	1971.6	1973.0	1959.5
5°	2077.9	2051.0	2010.6	1952.8	1919.2	1868.1	1825.0	1802.2	1778.0	1782.0	1771.2
7.5°	2001.2	1971.6	1909.8	1842.5	1759.1	1686.5	1646.2	1589.7	1557.4	1533.2	1546.6
10°	1977.0	1925.9	1833.1	1740.3	1611.2	1515.7	1422.9	1358.3	1314.0	1270.9	1289.8
12.5°	1964.9	1913.8	1784.7	1647.5	1480.7	1335.5	1205.0	1125.7	1062.5	1024.8	1039.6
15°	1954.1	1890.9	1739.0	1545.3	1358.3	1167.4	1020.8	915.9	855.4	819.0	823.1
17.5°	1968.9	1878.8	1671.7	1445.8	1223.9	1019.4	856.7	747.8	685.9	663.0	657.7
20°	1954.1	1865.4	1605.8	1346.2	1089.4	878.2	722.2	632.1	589.1	570.2	566.2
22.5°	1959.5	1833.1	1537.2	1236.0	964.3	759.9	632.1	563.5	529.9	520.5	523.2
25°	1985.1	1814.3	1468.6	1114.9	840.6	672.4	574.3	521.8	497.6	488.2	490.9
27.5°	2003.9	1830.4	1406.8	1000.6	735.7	594.4	525.9	490.9	474.7	468.0	466.7
30°	2051.0	1839.8	1346.2	898.4	649.6	543.3	492.2	464.0	453.2	449.2	447.9
32.5°	2120.9	1857.3	1276.3	804.2	586.4	494.9	465.3	441.1	438.4	434.4	435.7
35°	2235.2	1917.8	1198.3	723.6	525.9	462.6	437.1	421.0	421.0	421.0	425.0
37.5°	2399.3	2002.6	1128.4	646.9	486.9	434.4	412.9	407.5	404.8	408.8	411.5
40°	2610.4	2104.8	1071.9	586.4	453.2	415.6	396.7	394.1	392.7	391.4	394.1
42.5°	2841.8	2235.2	1023.5	539.3	429.0	395.4	382.0	379.3	373.9	376.6	380.6
45°	3071.7	2396.6	980.4	501.6	412.9	384.6	365.8	364.5	361.8	360.4	367.2
47.5°	3327.3	2555.3	967.0	478.8	400.8	368.5	355.1	353.7	345.6	344.3	349.7
50°	3526.3	2672.3	981.8	468.0	383.3	356.4	347.0	340.3	333.5	326.8	326.8
52.5°	3663.5	2753.0	992.5	460.0	373.9	340.3	328.2	325.5	318.7	312.0	309.3
55°	3787.2	2801.4	995.2	461.3	364.5	321.4	313.4	312.0	308.0	297.2	294.5
57.5°	3828.9	2781.2	941.4	449.2	359.1	309.3	298.6	301.3	295.9	286.5	285.1
60°	3824.9	2641.4	819.0	433.1	347.0	295.9	282.4	290.5	290.5	279.7	278.4
62.5°	3592.2	2318.6	669.8	402.1	333.5	282.4	267.6	279.7	283.8	277.0	275.7
65°	3109.4	1888.2	559.5	371.2	313.4	267.6	252.8	266.3	273.0	270.3	269.0
67.5°	2572.8	1444.4	465.3	330.8	287.8	247.5	235.4	244.8	248.8	250.2	251.5
70°	1818.3	961.6	388.7	286.5	252.8	225.9	212.5	213.8	212.5	216.5	216.5
72.5°	988.5	554.1	316.1	243.4	217.9	196.4	186.9	180.2	180.2	178.9	178.9
73°	845.9	497.6	301.3	236.7	208.5	191.0	180.2	174.8	174.8	173.5	172.1
75°	474.7	364.5	258.2	203.1	180.2	166.8	158.7	150.6	149.3	149.3	149.3
77.5°	312.0	283.8	205.8	162.7	145.2	133.1	130.5	122.4	122.4	122.4	121.0
80°	234.0	223.3	158.7	123.7	111.6	102.2	99.5	94.1	92.8	87.4	88.8
82.5°	156.0	176.2	115.7	87.4	75.3	69.9	69.9	68.6	64.6	57.8	57.8
85°	123.7	143.9	83.4	53.8	44.4	37.7	39.0	37.7	36.3	29.6	28.2
87.5°	22.9	57.8	24.2	14.8	10.8	6.7	6.7	4.0	2.7	0.0	0.0
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)