

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: P478311

Luminaire Tested: **IFLD-S-SA2E-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478311
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

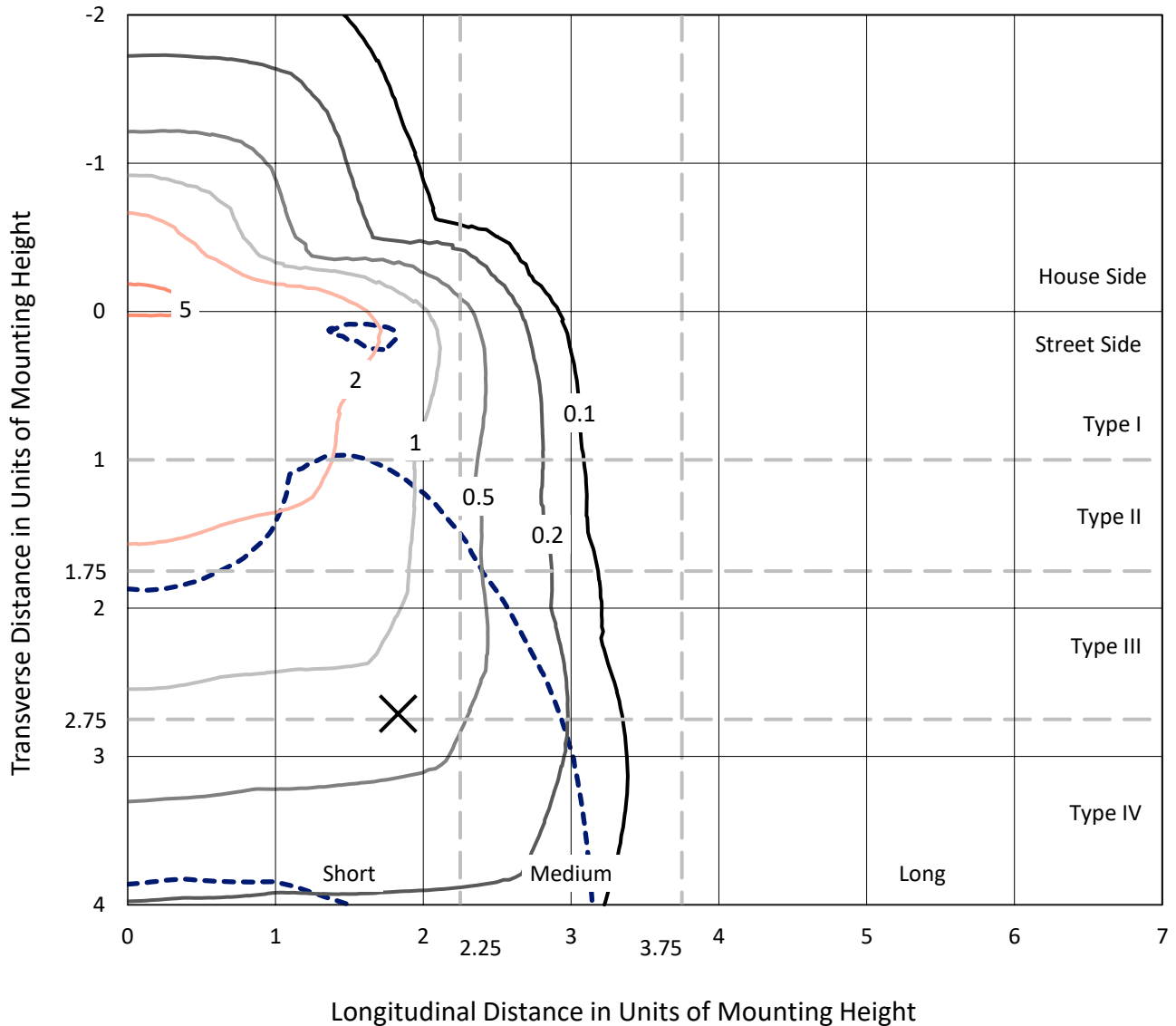
Lumens per Lamp: N/A
Luminaire Lumens: 14734 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

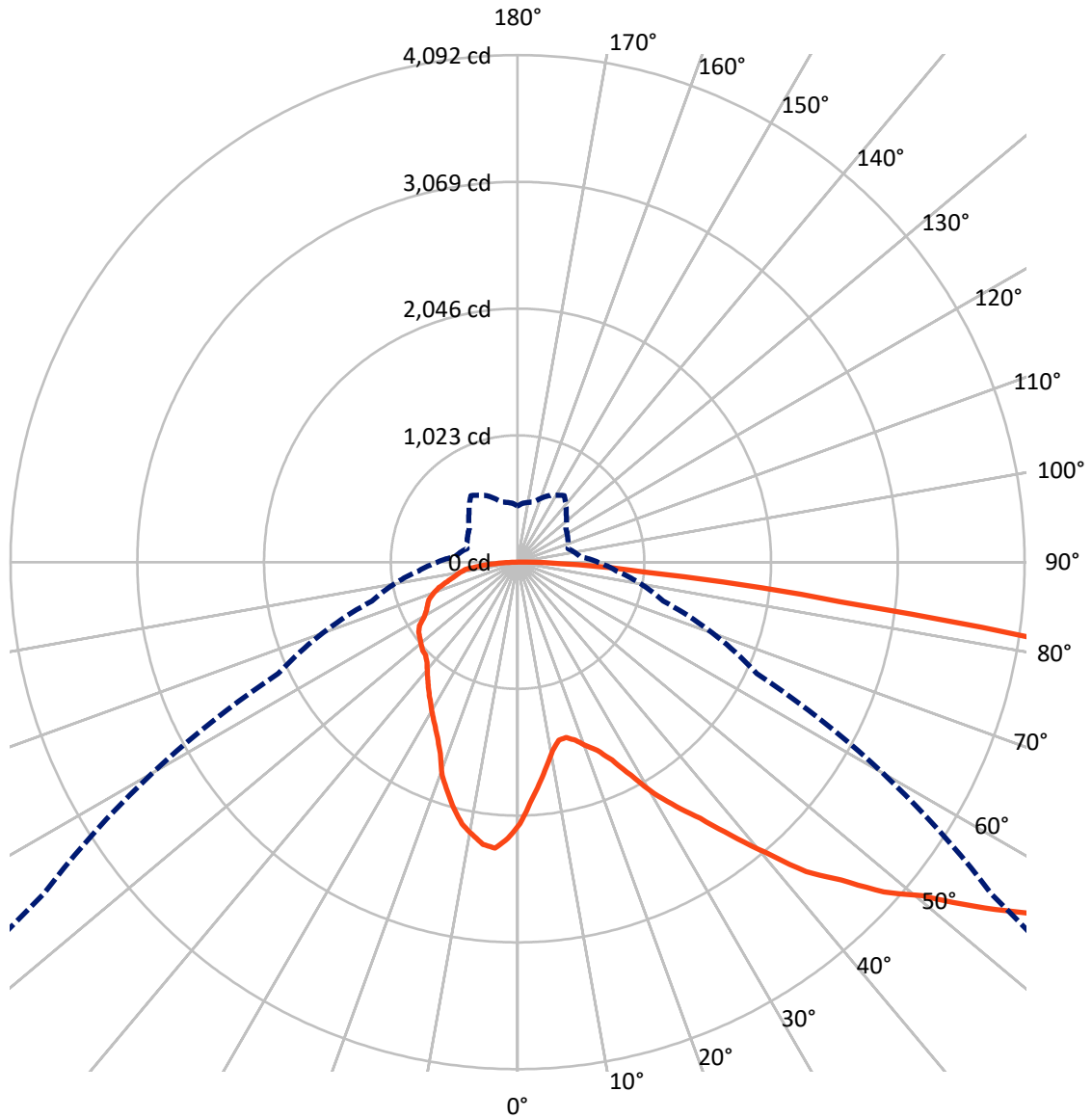
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3182.7	0.0	3182.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11551.3	0.0	11551.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	14734.0	0.0	14734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	1.3
10°-20°	545.6	3.7
20°-30°	898.0	6.1
30°-40°	1342.9	9.1
40°-50°	1990.9	13.5
50°-60°	2869.0	19.5
60°-70°	3661.3	24.8
70°-80°	2849.1	19.3
80°-90°	382.2	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°	14734.0	100.0
0°-180°	14734.0	100.0

Coefficient of Utilization



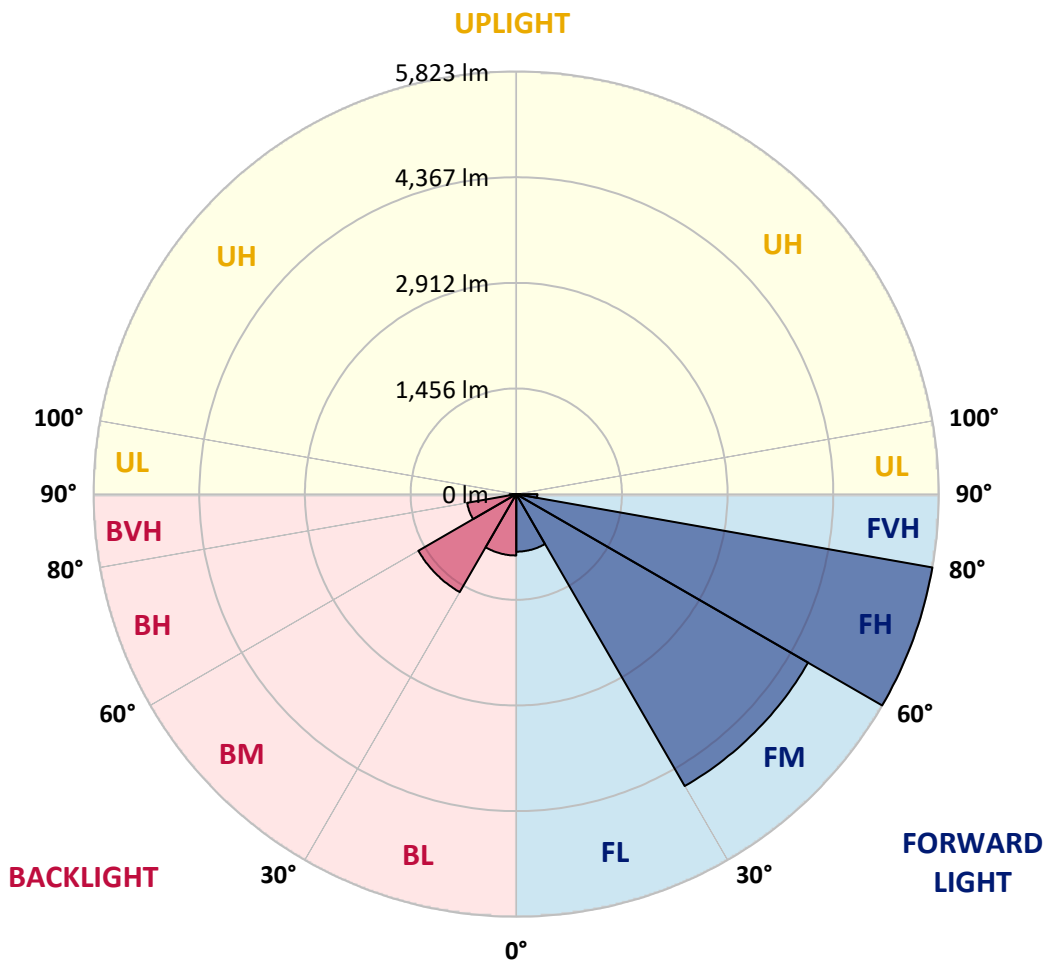
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.9	5.4			
FM (30°-60°)	4644.2	31.5			
FH (60°-80°)	5823.1	39.5			G3/7500
FVH (80°-90°)	290.9	2.0			G3/500
BL (0°-30°)	845.6	5.7	B2/1000		
BM (30°-60°)	1558.6	10.6	B2/2500		
BH (60°-80°)	687.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	91.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3
2.5°	1892.7	1898.9	1919.2	1923.9	1945.7	1933.2	1959.7	2006.4	2032.9	2071.8	2118.6
5°	1743.2	1716.7	1729.1	1777.4	1802.4	1808.6	1836.6	1916.1	1965.9	2023.6	2110.8
7.5°	1567.1	1562.5	1587.4	1618.5	1668.4	1673.1	1735.4	1805.5	1908.3	2036.0	2138.8
10°	1447.2	1467.4	1481.4	1514.2	1548.4	1548.4	1627.9	1749.4	1866.2	1989.3	2145.1
12.5°	1440.9	1428.5	1431.6	1448.7	1473.7	1504.8	1579.6	1688.6	1836.6	1979.9	2171.5
15°	1461.2	1465.9	1437.8	1459.6	1469.0	1479.9	1562.5	1685.5	1817.9	2012.7	2216.7
17.5°	1568.7	1542.2	1498.6	1478.3	1511.0	1511.0	1567.1	1663.7	1821.0	2029.8	2282.1
20°	1652.8	1652.8	1581.1	1559.3	1582.7	1578.0	1617.0	1688.6	1836.6	2064.1	2355.4
22.5°	1794.6	1814.8	1696.4	1651.2	1649.7	1662.2	1696.4	1757.2	1880.2	2112.3	2425.5
25°	1998.6	2003.3	1866.2	1819.5	1769.6	1789.9	1796.1	1856.9	1919.2	2168.4	2504.9
27.5°	2226.1	2223.0	2096.8	1979.9	1947.2	1951.9	1917.6	1958.1	1976.8	2185.6	2618.6
30°	2478.4	2450.4	2355.4	2190.2	2163.8	2134.2	2059.4	2057.8	2096.8	2282.1	2776.0
32.5°	2643.6	2607.7	2542.3	2423.9	2350.7	2353.8	2235.4	2233.9	2199.6	2388.1	2913.0
35°	2805.6	2751.0	2733.9	2612.4	2539.2	2547.0	2451.9	2439.5	2377.2	2548.5	3138.9
37.5°	3000.3	2952.0	2978.5	2886.6	2796.2	2758.8	2715.2	2699.6	2618.6	2774.4	3447.4
40°	3215.3	3199.7	3182.5	3137.4	3082.8	3086.0	3039.2	3023.6	2903.7	3047.0	3743.3
42.5°	3505.0	3445.8	3357.0	3386.6	3414.7	3444.2	3428.7	3388.2	3263.5	3324.3	4073.6
45°	3774.5	3696.6	3533.0	3542.4	3657.7	3681.0	3869.5	3864.8	3614.0	3676.4	4449.0
47.5°	3956.8	3920.9	3822.8	3811.9	3977.0	3975.5	4315.0	4315.0	3983.2	4026.9	4852.5
50°	4227.8	4134.3	4092.3	4146.8	4230.9	4288.6	4769.9	4799.5	4346.2	4392.9	5380.6
52.5°	4545.6	4428.8	4322.8	4463.0	4612.6	4650.0	5220.1	5207.7	4625.0	4818.2	5999.0
55°	4808.9	4749.7	4676.5	4757.5	5002.0	5048.8	5671.9	5556.6	4903.9	5170.3	6296.5
57.5°	5115.7	5151.6	5167.2	5146.9	5438.2	5511.4	6187.5	5857.2	5143.8	5407.1	6471.0
60°	5578.4	5600.2	5620.5	5668.8	5977.2	6080.0	6595.6	6234.2	5294.9	5544.1	6485.0
62.5°	6282.5	6198.4	6243.6	6410.3	6657.9	6774.8	7196.9	6499.1	5410.2	5626.7	6027.0
65°	7087.9	6974.2	6927.4	7142.4	7784.2	7690.8	7947.8	6696.9	5243.5	5318.3	5111.1
67.5°	7904.2	7916.6	7796.7	8228.2	9014.9	9014.9	8645.7	6791.9	4791.7	4310.4	3584.4
70°	8552.2	8591.2	8656.6	9493.1	10739.3	10927.8	9510.2	6402.5	3871.1	2869.4	1959.7
72.5°	8542.9	8426.0	8760.9	10301.6	12306.5	12149.1	9690.9	5062.8	2416.1	1405.1	898.8
73°	8351.3	8253.1	8619.2	10293.8	12370.3	12222.3	9558.5	4667.1	2131.0	1218.2	799.1
75°	6820.0	6642.4	7265.5	9323.3	11445.0	11558.7	8120.7	3043.9	1168.3	750.8	562.4
77.5°	3109.3	3187.2	3998.8	6254.5	8820.1	8954.1	5338.5	1316.3	640.2	526.5	414.4
80°	998.5	1048.4	1556.2	3109.3	5528.6	5770.0	2467.5	598.2	456.4	403.5	310.0
82.5°	381.7	380.1	652.7	1293.0	2620.2	2774.4	902.0	364.5	339.6	297.5	219.6
85°	134.0	140.2	246.1	511.0	1031.2	1079.5	313.1	202.5	235.2	199.4	126.2
87.5°	46.7	48.3	87.2	185.4	355.2	375.4	87.2	81.0	116.8	115.3	63.9
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°	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3	2112.3
2.5°	2134.2	2148.2	2152.9	2208.9	2208.9	2208.9	2230.7	2230.7	2224.5	2208.9	2246.3
5°	2143.5	2168.4	2216.7	2265.0	2277.5	2288.4	2318.0	2293.1	2302.4	2286.8	2300.8
7.5°	2170.0	2204.3	2294.6	2324.2	2304.0	2327.3	2296.2	2279.0	2261.9	2268.1	2246.3
10°	2215.2	2258.8	2300.8	2355.4	2316.4	2293.1	2229.2	2213.6	2159.1	2140.4	2157.5
12.5°	2271.2	2324.2	2395.9	2375.6	2300.8	2233.9	2165.3	2099.9	2067.2	2020.4	2032.9
15°	2327.3	2388.1	2399.0	2364.7	2271.2	2187.1	2062.5	1970.6	1937.9	1895.8	1917.6
17.5°	2388.1	2445.7	2427.0	2338.2	2212.0	2084.3	1942.6	1852.2	1783.7	1757.2	1757.2
20°	2478.4	2506.5	2476.9	2294.6	2140.4	1972.1	1835.1	1732.3	1663.7	1652.8	1635.7
22.5°	2548.5	2593.7	2461.3	2230.7	2036.0	1825.7	1668.4	1629.4	1609.2	1592.1	1570.2
25°	2638.9	2637.3	2433.3	2171.5	1856.9	1651.2	1556.2	1553.1	1543.8	1537.5	1567.1
27.5°	2724.6	2688.7	2400.5	2025.1	1671.5	1518.8	1467.4	1501.7	1515.7	1506.4	1518.8
30°	2860.1	2800.9	2353.8	1869.3	1507.9	1384.9	1394.2	1440.9	1464.3	1478.3	1459.6
32.5°	3003.4	2913.0	2257.2	1707.3	1363.1	1300.7	1322.6	1370.8	1398.9	1414.5	1431.6
35°	3210.6	3000.3	2159.1	1495.5	1258.7	1249.3	1261.8	1288.3	1328.8	1339.7	1344.4
37.5°	3466.1	3132.7	2026.7	1325.7	1177.7	1188.6	1201.0	1210.4	1212.0	1232.2	1224.4
40°	3721.5	3244.9	1833.5	1163.7	1093.6	1152.8	1146.5	1129.4	1115.4	1096.7	1092.0
42.5°	3945.9	3343.0	1618.5	1026.6	1018.8	1115.4	1095.1	1051.5	1018.8	1004.8	981.4
45°	4198.2	3481.6	1402.0	940.9	961.1	1070.2	1064.0	997.0	954.9	905.1	898.8
47.5°	4525.3	3626.5	1194.8	852.1	906.6	1053.1	1056.2	970.5	909.7	842.8	833.4
50°	4944.4	3835.3	1037.5	814.7	873.9	1028.1	1032.8	934.7	855.2	786.7	780.4
52.5°	5346.3	4048.7	906.6	757.1	852.1	998.5	1009.4	902.0	810.0	724.4	729.0
55°	5548.8	3970.8	794.5	715.0	802.3	950.2	990.7	878.6	741.5	682.3	680.7
57.5°	5594.0	3779.2	705.7	671.4	760.2	898.8	959.6	808.5	710.3	660.5	654.3
60°	5446.0	3444.2	635.6	624.7	707.2	845.9	887.9	771.1	679.2	638.7	629.3
62.5°	5081.5	3096.9	587.3	602.9	662.1	788.2	842.8	744.6	649.6	621.6	601.3
65°	4167.1	2547.0	548.3	560.8	615.3	732.2	814.7	715.0	623.1	596.6	595.1
67.5°	2886.6	1755.6	517.2	540.5	577.9	691.7	786.7	682.3	588.8	579.5	567.0
70°	1478.3	936.2	476.7	495.4	537.4	640.2	736.8	648.0	553.0	551.5	535.9
72.5°	749.3	548.3	429.9	458.0	487.6	573.3	674.5	602.9	507.8	490.7	465.8
73°	648.0	507.8	422.2	447.1	475.1	554.6	655.8	592.0	501.6	476.7	453.3
75°	472.0	400.3	378.5	403.5	425.3	500.0	593.5	542.1	461.1	434.6	412.8
77.5°	353.6	308.4	314.7	342.7	361.4	431.5	528.1	490.7	417.5	381.7	372.3
80°	260.1	235.2	260.1	286.6	300.7	380.1	481.4	425.3	352.1	311.6	303.8
82.5°	185.4	171.4	201.0	218.1	224.3	314.7	433.1	339.6	266.4	213.4	196.3
85°	105.9	104.4	135.5	134.0	138.6	183.8	285.1	225.9	171.4	130.9	127.7
87.5°	46.7	51.4	68.5	54.5	57.6	87.2	121.5	84.1	70.1	38.9	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

(END OF REPORT)