

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: P478114

Luminaire Tested: **IFLD-S-SA2C-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478114
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

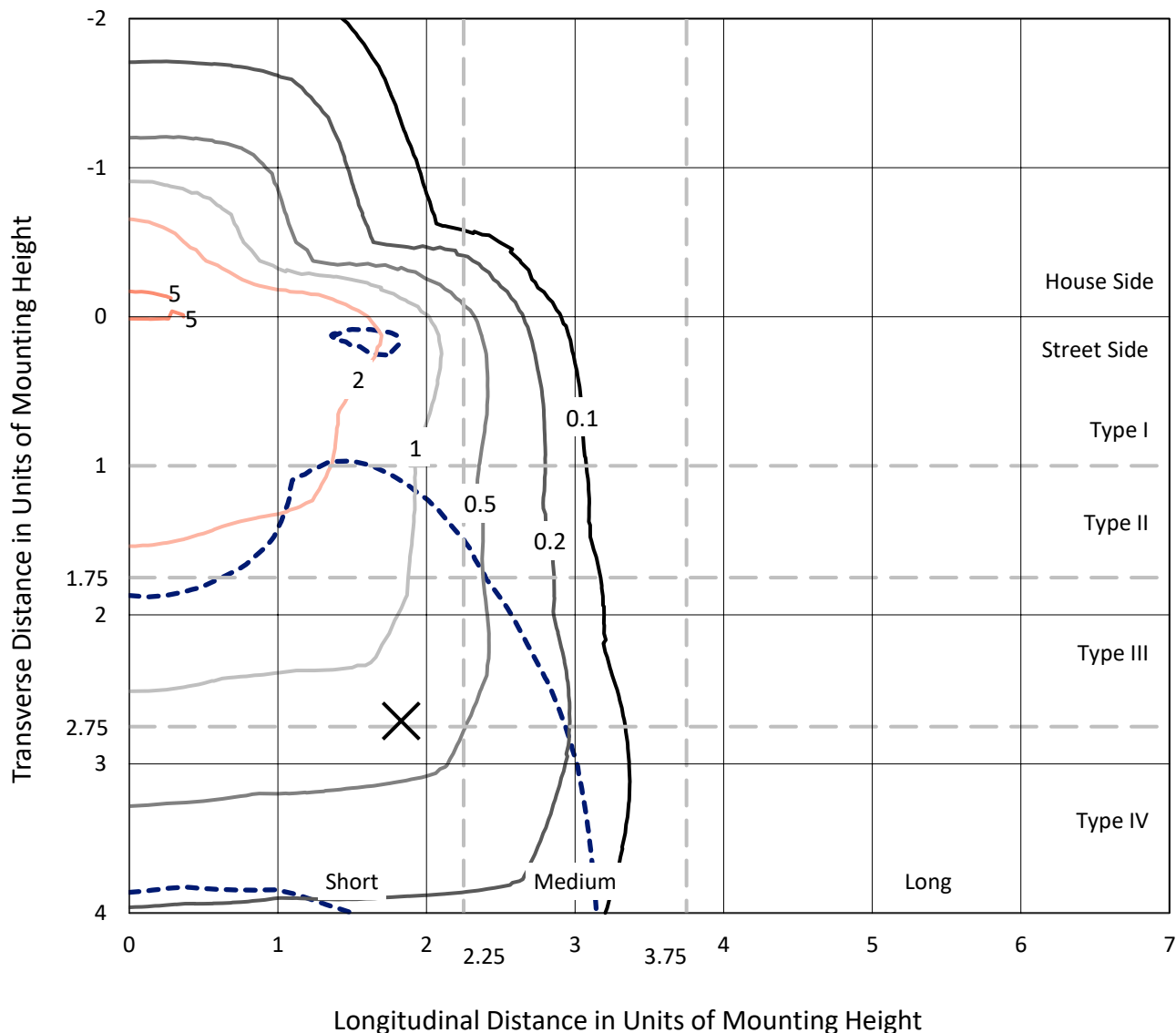
Lumens per Lamp: N/A
Luminaire Lumens: 14362 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

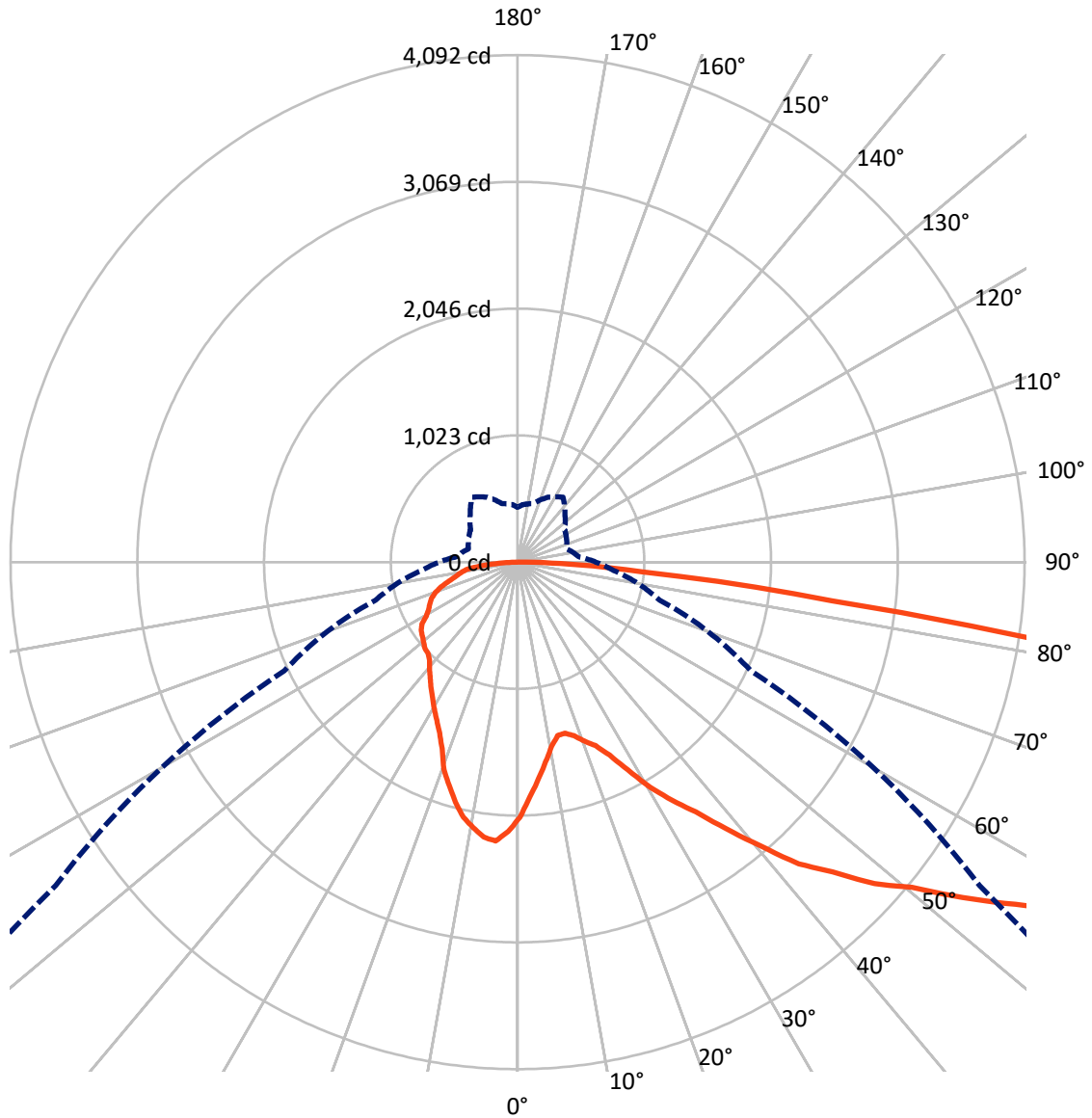
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	3102.4	0.0	3102.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11259.6	0.0	11259.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	14362.0	0.0	14362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	1.3
10°-20°	531.8	3.7
20°-30°	875.3	6.1
30°-40°	1309.0	9.1
40°-50°	1940.6	13.5
50°-60°	2796.6	19.5
60°-70°	3568.8	24.8
70°-80°	2777.2	19.3
80°-90°	372.6	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°	14362.0	100.0
0°-180°	14362.0	100.0

Coefficient of Utilization



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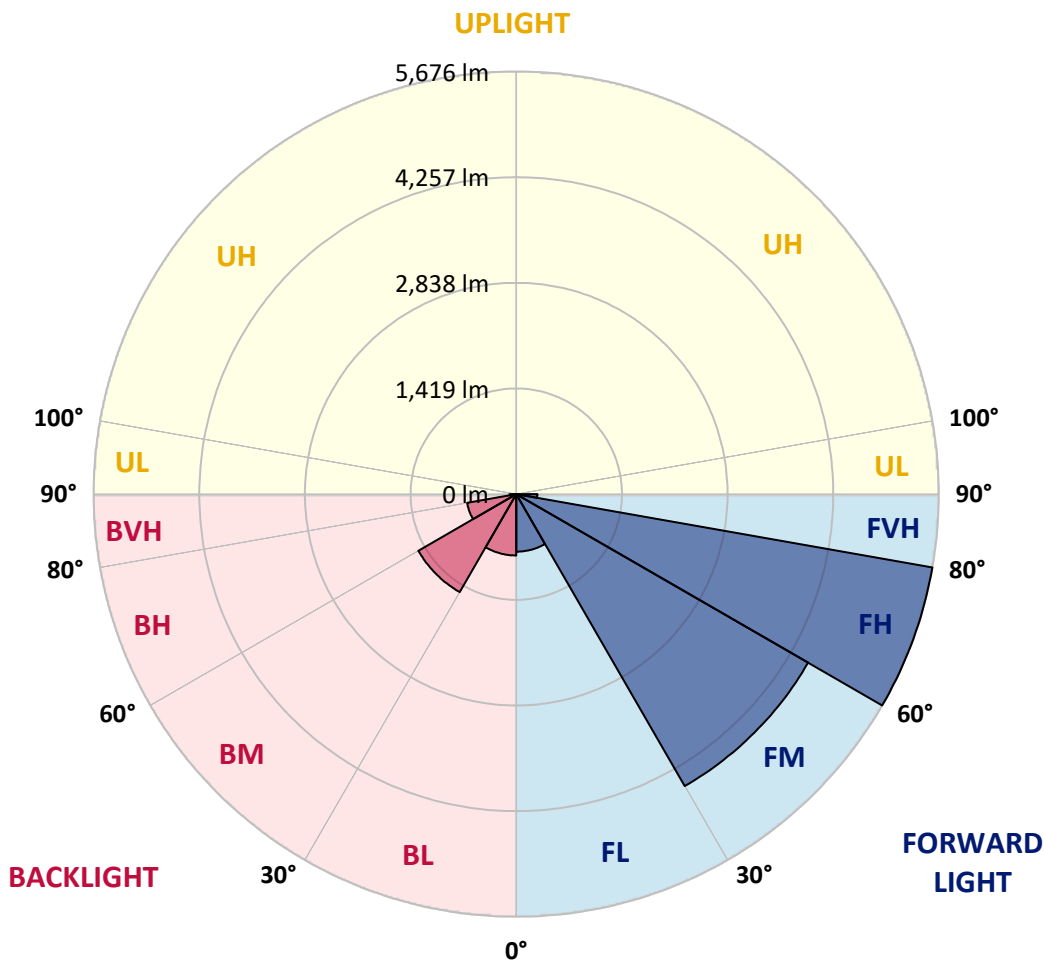
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.9	5.4			
FM (30°-60°)	4527.0	31.5			
FH (60°-80°)	5676.1	39.5			G3/7500
FVH (80°-90°)	283.6	2.0			G3/500
BL (0°-30°)	824.3	5.7	B2/1000		
BM (30°-60°)	1519.2	10.6	B2/2500		
BH (60°-80°)	669.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	89.0	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°	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0
2.5°	1844.9	1851.0	1870.7	1875.3	1896.5	1884.4	1910.2	1955.8	1981.6	2019.5	2065.1
5°	1699.1	1673.3	1685.5	1732.6	1756.8	1762.9	1790.3	1867.7	1916.3	1972.5	2057.5
7.5°	1527.6	1523.0	1547.3	1577.7	1626.3	1630.8	1691.6	1759.9	1860.1	1984.6	2084.8
10°	1410.6	1430.4	1444.0	1475.9	1509.3	1509.3	1586.8	1705.2	1819.1	1939.1	2090.9
12.5°	1404.6	1392.4	1395.5	1412.2	1436.5	1466.8	1539.7	1646.0	1790.3	1930.0	2116.7
15°	1424.3	1428.9	1401.5	1422.8	1431.9	1442.5	1523.0	1643.0	1772.0	1961.8	2160.8
17.5°	1529.1	1503.3	1460.8	1441.0	1472.9	1472.9	1527.6	1621.7	1775.1	1978.5	2224.5
20°	1611.1	1611.1	1541.2	1520.0	1542.7	1538.2	1576.2	1646.0	1790.3	2011.9	2295.9
22.5°	1749.3	1769.0	1653.6	1609.6	1608.0	1620.2	1653.6	1712.8	1832.8	2059.0	2364.2
25°	1948.2	1952.7	1819.1	1773.6	1725.0	1744.7	1750.8	1810.0	1870.7	2113.7	2441.7
27.5°	2169.9	2166.8	2043.8	1930.0	1898.1	1902.6	1869.2	1908.7	1926.9	2130.4	2552.5
30°	2415.9	2388.5	2295.9	2134.9	2109.1	2080.3	2007.4	2005.9	2043.8	2224.5	2705.9
32.5°	2576.8	2541.9	2478.1	2362.7	2291.3	2294.4	2179.0	2177.5	2144.1	2327.8	2839.5
35°	2734.7	2681.6	2664.9	2546.4	2475.1	2482.7	2390.0	2377.9	2317.2	2484.2	3059.7
37.5°	2924.5	2877.5	2903.3	2813.7	2725.6	2689.2	2646.7	2631.5	2552.5	2704.4	3360.3
40°	3134.1	3118.9	3102.2	3058.2	3005.0	3008.1	2962.5	2947.3	2830.4	2970.1	3648.8
42.5°	3416.5	3358.8	3272.3	3301.1	3328.4	3357.3	3342.1	3302.6	3181.2	3240.4	3970.8
45°	3679.2	3603.3	3443.8	3453.0	3565.3	3588.1	3771.8	3767.3	3522.8	3583.5	4336.7
47.5°	3856.9	3821.9	3726.3	3715.7	3876.6	3875.1	4206.1	4206.1	3882.7	3925.2	4730.0
50°	4121.1	4030.0	3989.0	4042.1	4124.1	4180.3	4649.5	4678.3	4236.5	4282.0	5244.7
52.5°	4430.8	4317.0	4213.7	4350.4	4496.1	4532.6	5088.3	5076.2	4508.3	4696.6	5847.6
55°	4687.5	4629.8	4558.4	4637.4	4875.7	4921.3	5528.7	5416.3	4780.1	5039.7	6137.6
57.5°	4986.6	5021.5	5036.7	5017.0	5300.9	5372.3	6031.3	5709.4	5013.9	5270.5	6307.6
60°	5437.6	5458.8	5478.6	5525.6	5826.3	5926.5	6429.1	6076.8	5161.2	5404.2	6321.3
62.5°	6123.9	6041.9	6086.0	6248.4	6489.9	6603.7	7015.2	6335.0	5273.6	5484.6	5874.9
65°	6909.0	6798.1	6752.6	6962.1	7587.7	7496.6	7747.1	6527.8	5111.1	5184.0	4982.0
67.5°	7704.6	7716.8	7599.8	8020.5	8787.3	8787.3	8427.4	6620.4	4670.8	4201.6	3494.0
70°	8336.3	8374.3	8438.0	9253.4	10468.2	10651.9	9270.1	6240.8	3773.4	2797.0	1910.2
72.5°	8327.2	8213.3	8539.8	10041.5	11995.8	11842.4	9446.3	4935.0	2355.1	1369.6	876.1
73°	8140.4	8044.8	8401.6	10033.9	12058.0	11913.8	9317.2	4549.3	2077.2	1187.4	779.0
75°	6647.8	6474.7	7082.1	9087.9	11156.1	11266.9	7915.7	2967.1	1138.8	731.9	548.2
77.5°	3030.8	3106.8	3897.9	6096.6	8597.5	8728.1	5203.7	1283.1	624.1	513.2	403.9
80°	973.3	1021.9	1516.9	3030.8	5389.0	5624.3	2405.2	583.1	444.9	393.3	302.2
82.5°	372.0	370.5	636.2	1260.3	2554.0	2704.4	879.2	355.3	331.0	290.0	214.1
85°	130.6	136.7	239.9	498.1	1005.2	1052.3	305.2	197.4	229.3	194.4	123.0
87.5°	45.6	47.1	85.0	180.7	346.2	365.9	85.0	79.0	113.9	112.4	62.3
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°	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0	2059.0
2.5°	2080.3	2093.9	2098.5	2153.2	2153.2	2153.2	2174.4	2174.4	2168.3	2153.2	2189.6
5°	2089.4	2113.7	2160.8	2207.8	2220.0	2230.6	2259.5	2235.2	2244.3	2229.1	2242.8
7.5°	2115.2	2148.6	2236.7	2265.5	2245.8	2268.6	2238.2	2221.5	2204.8	2210.9	2189.6
10°	2159.2	2201.8	2242.8	2295.9	2257.9	2235.2	2172.9	2157.7	2104.6	2086.4	2103.1
12.5°	2213.9	2265.5	2335.4	2315.6	2242.8	2177.5	2110.6	2046.9	2015.0	1969.4	1981.6
15°	2268.6	2327.8	2338.4	2305.0	2213.9	2131.9	2010.4	1920.8	1889.0	1848.0	1869.2
17.5°	2327.8	2384.0	2365.7	2279.2	2156.2	2031.7	1893.5	1805.4	1738.6	1712.8	1712.8
20°	2415.9	2443.2	2414.3	2236.7	2086.4	1922.4	1788.7	1688.5	1621.7	1611.1	1594.4
22.5°	2484.2	2528.2	2399.2	2174.4	1984.6	1779.6	1626.3	1588.3	1568.6	1551.9	1530.6
25°	2572.3	2570.7	2371.8	2116.7	1810.0	1609.6	1516.9	1513.9	1504.8	1498.7	1527.6
27.5°	2655.8	2620.8	2339.9	1974.0	1629.3	1480.5	1430.4	1463.8	1477.5	1468.3	1480.5
30°	2787.9	2730.2	2294.4	1822.1	1469.9	1349.9	1359.0	1404.6	1427.3	1441.0	1422.8
32.5°	2927.6	2839.5	2200.2	1664.2	1328.6	1267.9	1289.2	1336.2	1363.6	1378.8	1395.5
35°	3129.5	2924.5	2104.6	1457.7	1226.9	1217.8	1229.9	1255.8	1295.2	1305.9	1310.4
37.5°	3378.6	3053.6	1975.5	1292.2	1147.9	1158.6	1170.7	1179.8	1181.4	1201.1	1193.5
40°	3627.6	3162.9	1787.2	1134.3	1066.0	1123.7	1117.6	1100.9	1087.2	1069.0	1064.4
42.5°	3846.2	3258.6	1577.7	1000.7	993.1	1087.2	1067.5	1025.0	993.1	979.4	956.6
45°	4092.2	3393.7	1366.6	917.1	936.9	1043.2	1037.1	971.8	930.8	882.2	876.1
47.5°	4411.1	3535.0	1164.7	830.6	883.7	1026.5	1029.5	946.0	886.8	821.5	812.4
50°	4819.6	3738.4	1011.3	794.2	851.9	1002.2	1006.7	911.1	833.6	766.8	760.7
52.5°	5211.3	3946.5	883.7	738.0	830.6	973.3	984.0	879.2	789.6	706.1	710.6
55°	5408.7	3870.5	774.4	697.0	782.0	926.3	965.7	856.4	722.8	665.1	663.6
57.5°	5452.8	3683.8	687.9	654.5	741.0	876.1	935.4	788.1	692.4	643.8	637.7
60°	5308.5	3357.3	619.5	608.9	689.4	824.5	865.5	751.6	662.0	622.6	613.5
62.5°	4953.2	3018.7	572.5	587.6	645.3	768.3	821.5	725.8	633.2	605.9	586.1
65°	4061.9	2482.7	534.5	546.6	599.8	713.7	794.2	697.0	607.4	581.6	580.0
67.5°	2813.7	1711.3	504.1	526.9	563.3	674.2	766.8	665.1	574.0	564.9	552.7
70°	1441.0	912.6	464.6	482.9	523.9	624.1	718.2	631.7	539.1	537.5	522.3
72.5°	730.4	534.5	419.1	446.4	475.3	558.8	657.5	587.6	495.0	478.3	454.0
73°	631.7	495.0	411.5	435.8	463.1	540.6	639.3	577.0	488.9	464.6	441.9
75°	460.1	390.2	369.0	393.3	414.5	487.4	578.5	528.4	449.5	423.6	402.4
77.5°	344.7	300.7	306.7	334.1	352.3	420.6	514.8	478.3	406.9	372.0	362.9
80°	253.6	229.3	253.6	279.4	293.1	370.5	469.2	414.5	343.2	303.7	296.1
82.5°	180.7	167.0	195.9	212.6	218.7	306.7	422.1	331.0	259.7	208.0	191.3
85°	103.3	101.7	132.1	130.6	135.1	179.2	277.9	220.2	167.0	127.5	124.5
87.5°	45.6	50.1	66.8	53.1	56.2	85.0	118.4	82.0	68.3	38.0	28.9
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)