

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: P476463

Luminaire Tested: **IFLD-M-SA4D-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476463
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

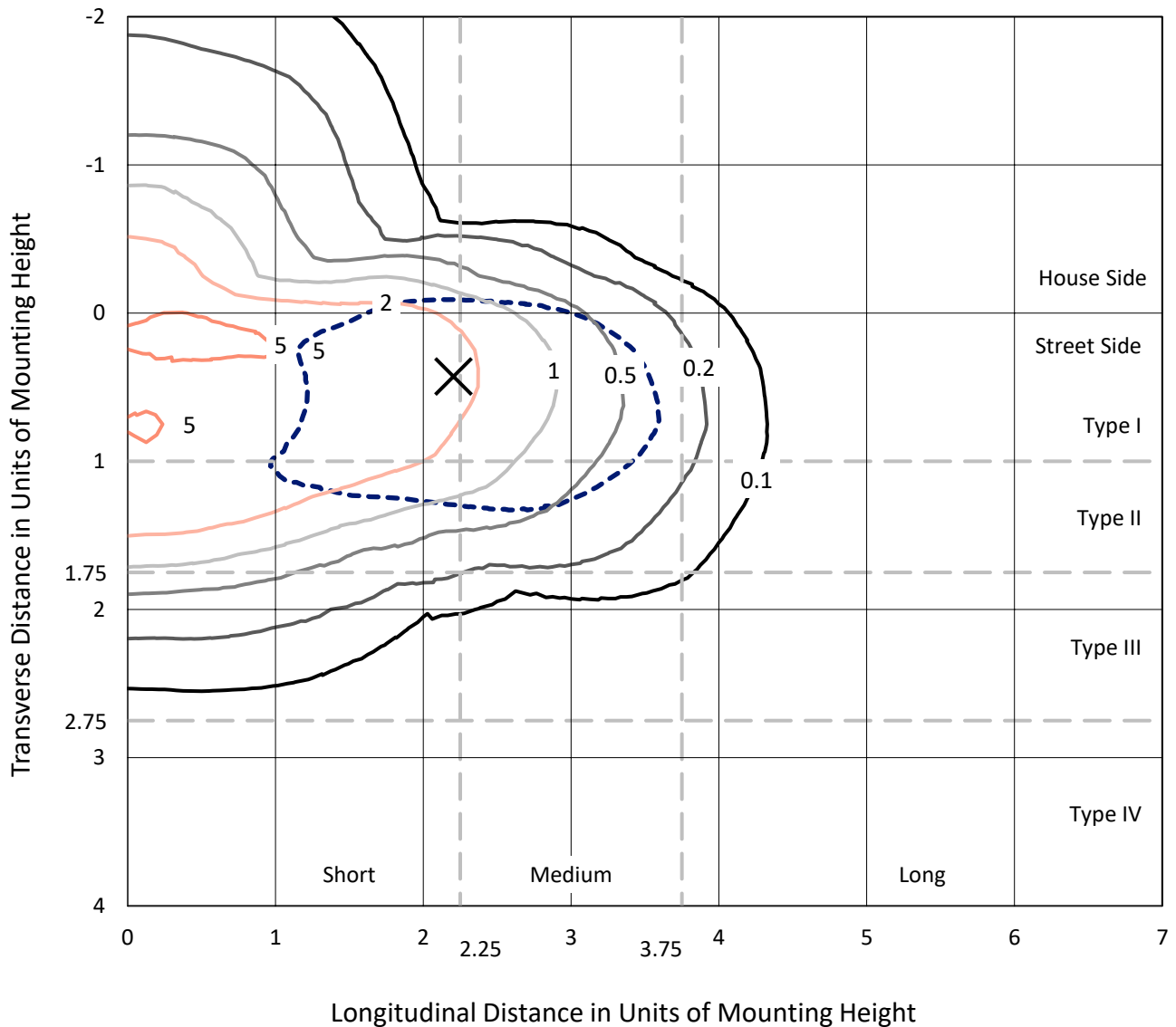
Lumens per Lamp: N/A
Luminaire Lumens: 23015.9 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.7
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

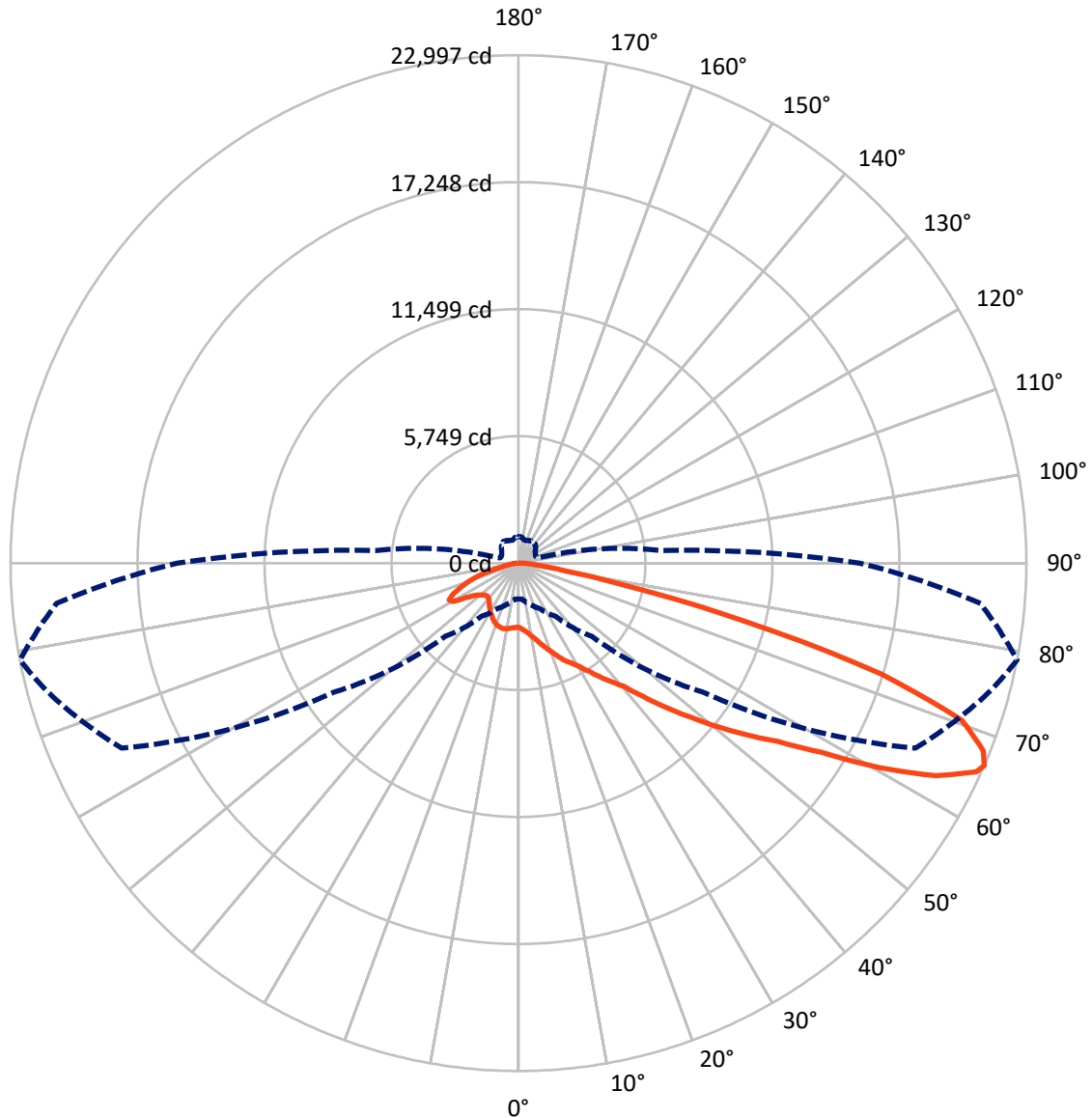
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4647.7	0.0	4647.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	18368.2	0.0	18368.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	23015.9	0.0	23015.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.2
10°-20°	882.5	3.8
20°-30°	1514.8	6.6
30°-40°	2340.0	10.2
40°-50°	3748.1	16.3
50°-60°	5596.2	24.3
60°-70°	5750.1	25.0
70°-80°	2548.9	11.1
80°-90°	349.7	1.5
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°	23015.9	100.0
0°-180°	23015.9	100.0



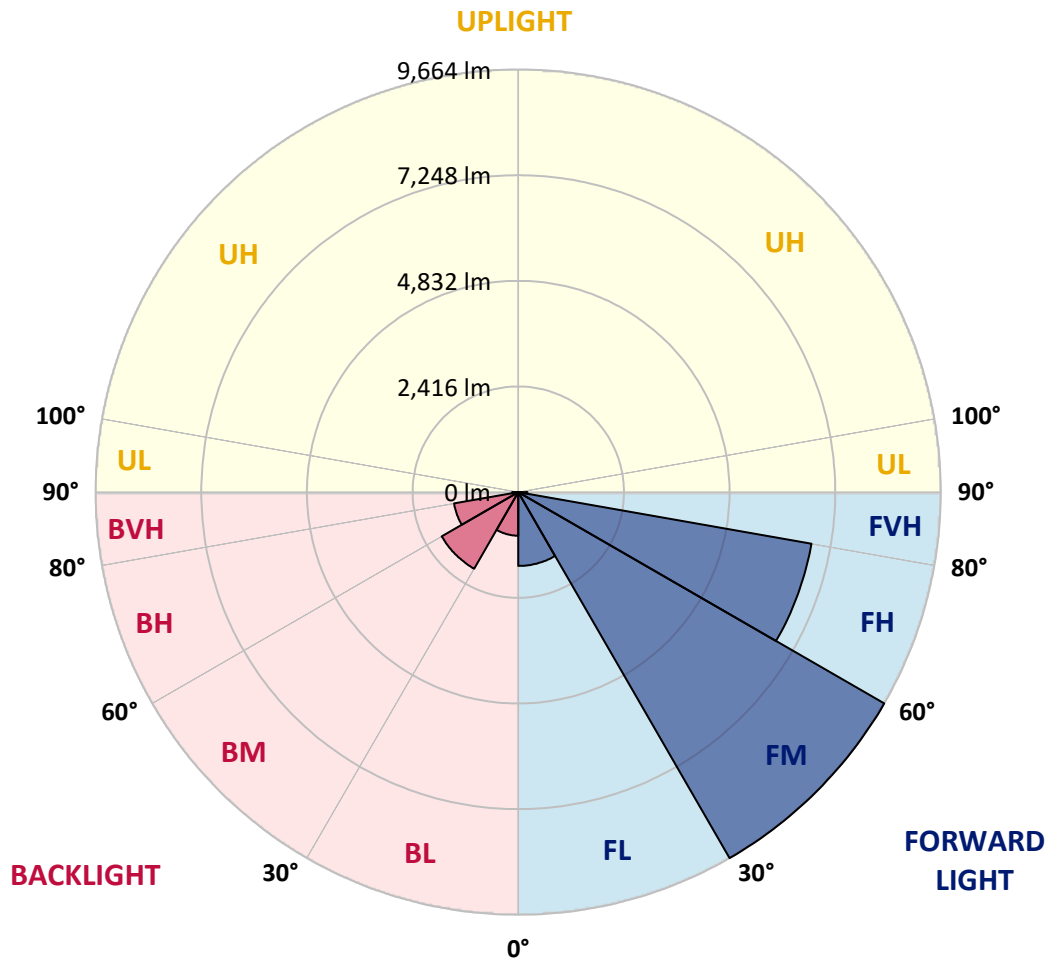
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.2	7.3			
FM (30°-60°)	9663.6	42.0			
FH (60°-80°)	6807.6	29.6			G3/7500
FVH (80°-90°)	209.8	0.9			G2/225
BL (0°-30°)	995.8	4.3	B2/1000		
BM (30°-60°)	2020.6	8.8	B2/2500		
BH (60°-80°)	1491.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	140.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3
2.5°	3091.1	3093.6	3093.6	3083.5	3086.0	3093.6	3065.8	3005.0	3005.0	2994.9	2977.2
5°	3280.9	3268.3	3250.6	3253.1	3243.0	3243.0	3212.6	3154.4	3103.7	3083.5	3030.3
7.5°	3306.3	3318.9	3316.4	3346.8	3362.0	3362.0	3377.2	3329.1	3253.1	3205.0	3151.8
10°	3356.9	3324.0	3321.5	3392.3	3415.1	3468.3	3529.0	3503.7	3440.4	3372.1	3301.2
12.5°	3387.3	3407.5	3407.5	3443.0	3496.1	3574.6	3680.9	3729.0	3630.3	3559.4	3450.6
15°	3432.8	3405.0	3486.0	3516.4	3617.7	3673.3	3825.2	3949.3	3883.5	3797.4	3625.2
17.5°	3453.1	3435.4	3480.9	3536.6	3708.8	3792.3	3977.1	4149.3	4093.6	4037.9	3860.7
20°	3556.9	3554.4	3574.6	3620.2	3744.2	3908.8	4139.2	4377.1	4397.4	4296.1	4055.6
22.5°	3810.1	3777.1	3777.1	3759.4	3812.6	3982.2	4293.6	4622.7	4713.8	4594.8	4275.9
25°	4043.0	4088.5	4060.7	3979.7	3959.4	4048.0	4405.0	4883.5	5005.0	4893.6	4574.6
27.5°	4341.7	4356.9	4405.0	4296.1	4156.9	4184.7	4526.5	5030.3	5280.9	5131.5	4744.2
30°	4772.1	4744.2	4734.1	4612.6	4430.3	4392.3	4665.7	5245.5	5642.9	5432.8	4944.2
32.5°	5063.2	5131.5	5129.0	4961.9	4741.7	4658.1	4837.9	5448.0	6030.3	5835.3	5313.8
35°	5640.4	5711.3	5655.6	5410.0	5151.8	4984.7	5086.0	5711.3	6473.3	6321.4	5627.7
37.5°	6377.1	6544.2	6425.2	5972.0	5607.5	5425.2	5430.3	5997.4	6926.4	6802.4	5964.4
40°	6885.9	7111.3	6946.7	6521.4	6134.1	5961.9	5893.6	6336.6	7468.2	7336.6	6491.0
42.5°	7516.3	7703.7	7617.6	7197.3	6744.2	6597.3	6460.6	6903.7	8296.0	8235.3	7167.0
45°	8204.9	8293.5	8265.7	7999.8	7496.1	7445.4	7144.2	7650.5	9270.7	9296.0	8012.5
47.5°	8845.4	8893.5	8946.7	8754.3	8440.3	8483.4	7931.5	8450.5	10217.5	10384.6	8954.3
50°	9010.0	9174.5	9298.6	9427.7	9496.0	9787.2	8799.8	9432.7	11306.1	11630.2	10002.3
52.5°	8842.9	8830.2	9207.4	9612.5	10296.0	10906.1	9982.1	10653.0	12268.1	12908.6	10961.8
55°	8083.4	8058.1	8665.7	9202.4	10536.5	11528.9	11670.7	12278.2	13430.1	14263.0	12260.5
57.5°	6754.3	6597.3	7260.6	8141.6	10015.0	11597.2	13366.8	14690.9	15217.4	16166.8	14242.8
60°	4539.2	4473.3	5108.8	6159.4	8131.5	10627.6	14382.0	17711.1	17736.4	18804.7	17318.7
62.5°	2794.9	2807.5	3215.1	4002.5	5693.6	8425.2	13944.0	20123.7	20128.7	21199.6	19850.3
65°	1827.8	1835.4	2164.5	2600.0	3556.9	5713.8	11531.4	20313.5	21792.0	22786.9	21009.7
66°	1627.8	1630.3	1913.9	2268.3	2946.8	4675.9	10184.6	19819.9	22166.7	22997.0	20994.5
67.5°	1372.1	1405.0	1632.9	1906.3	2298.7	3359.4	8080.9	18392.1	21974.3	22703.4	20518.6
70°	1073.4	1091.1	1270.9	1549.3	1724.0	1944.3	4802.4	14992.1	20113.5	21295.8	18787.0
72.5°	860.7	875.9	1012.6	1258.2	1400.0	1281.0	2615.1	10878.3	15888.3	17149.0	14776.9
75°	726.6	729.1	794.9	989.9	1151.9	962.0	1392.4	6982.1	10194.7	10782.1	9053.0
77.5°	587.3	597.5	643.0	754.4	926.6	756.9	830.4	3911.3	5118.9	5161.9	4184.7
80°	478.5	483.5	511.4	549.4	706.3	559.5	562.0	1908.8	2194.9	2144.3	1701.2
82.5°	377.2	382.3	415.2	407.6	519.0	400.0	349.4	919.0	1010.1	989.9	782.3
85°	212.7	212.7	326.6	326.6	329.1	253.2	212.7	432.9	534.2	498.7	367.1
87.5°	68.4	70.9	98.7	103.8	164.6	113.9	103.8	162.0	253.2	222.8	131.6
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°	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3
2.5°	2967.0	2926.5	2908.8	2850.6	2835.4	2797.4	2779.7	2756.9	2749.3	2716.4	2746.8
5°	2989.8	2977.2	2906.3	2832.9	2777.2	2751.8	2713.9	2663.2	2658.2	2612.6	2607.5
7.5°	3086.0	3043.0	2918.9	2840.5	2729.1	2665.8	2582.2	2556.9	2524.0	2508.8	2541.7
10°	3235.4	3126.5	2941.7	2744.3	2607.5	2531.6	2470.8	2453.1	2455.6	2445.5	2430.3
12.5°	3341.7	3237.9	2903.7	2663.2	2486.0	2412.6	2407.5	2425.3	2453.1	2440.5	2458.2
15°	3493.6	3298.7	2875.9	2529.1	2387.3	2367.0	2364.5	2417.7	2415.1	2415.1	2412.6
17.5°	3635.4	3359.4	2774.6	2412.6	2283.5	2298.7	2316.4	2313.9	2339.2	2349.3	2367.0
20°	3815.1	3430.3	2632.9	2296.2	2205.0	2200.0	2197.4	2200.0	2225.3	2240.5	2227.8
22.5°	3972.1	3445.5	2513.9	2184.8	2111.4	2091.1	2058.2	2091.1	2078.4	2083.5	2098.7
25°	4108.8	3448.0	2344.3	2101.2	2017.7	1972.1	1946.8	1944.3	1921.5	1919.0	1919.0
27.5°	4222.7	3362.0	2194.9	1984.8	1906.3	1863.3	1860.7	1832.9	1774.6	1736.7	1741.7
30°	4311.3	3296.1	2091.1	1883.5	1807.6	1800.0	1777.2	1713.9	1637.9	1589.8	1589.8
32.5°	4468.3	3164.5	1949.3	1779.7	1741.7	1731.6	1678.4	1622.8	1551.9	1506.3	1498.7
35°	4584.7	3043.0	1855.7	1691.1	1673.4	1653.1	1607.6	1546.8	1526.6	1516.4	1524.0
37.5°	4716.4	2906.3	1741.7	1615.2	1632.9	1594.9	1541.7	1513.9	1584.8	1567.1	1574.7
40°	4926.5	2810.1	1630.3	1569.6	1587.3	1544.3	1475.9	1465.8	1554.4	1491.1	1475.9
42.5°	5311.3	2807.5	1562.0	1501.2	1513.9	1481.0	1420.2	1415.2	1450.6	1374.7	1351.9
45°	5789.8	2896.1	1511.4	1450.6	1440.5	1435.4	1415.2	1392.4	1362.0	1263.3	1238.0
47.5°	6361.9	3040.4	1501.2	1374.7	1387.3	1430.4	1405.0	1346.8	1268.3	1205.0	1192.4
50°	7055.6	3339.2	1475.9	1319.0	1341.7	1410.1	1389.8	1308.8	1238.0	1197.4	1189.9
52.5°	7822.6	3716.4	1443.0	1232.9	1283.5	1392.4	1402.5	1326.6	1222.8	1187.3	1182.3
55°	8726.4	4273.3	1405.0	1139.2	1215.2	1374.7	1402.5	1275.9	1202.5	1202.5	1197.4
57.5°	10511.2	5275.8	1326.6	1053.1	1154.4	1341.7	1362.0	1278.5	1205.0	1205.0	1194.9
60°	13128.9	6840.4	1177.2	987.3	1096.2	1296.2	1331.6	1240.5	1177.2	1192.4	1189.9
62.5°	15176.9	7316.3	1050.6	924.0	1038.0	1212.6	1291.1	1200.0	1144.3	1200.0	1205.0
65°	15614.9	6835.3	921.5	855.7	956.9	1131.6	1232.9	1141.8	1096.2	1205.0	1210.1
66°	15457.9	6460.6	875.9	835.4	921.5	1091.1	1197.4	1121.5	1070.9	1200.0	1202.5
67.5°	14759.2	5898.6	825.3	792.4	873.4	1032.9	1156.9	1093.6	1030.4	1184.8	1162.0
70°	13240.3	5002.4	739.2	716.4	805.0	936.7	1063.3	1022.8	967.1	1091.1	1050.6
72.5°	10197.3	3997.4	648.1	650.6	726.6	838.0	969.6	941.8	893.7	956.9	931.6
75°	6210.0	2554.4	564.5	569.6	632.9	744.3	881.0	860.7	802.5	838.0	825.3
77.5°	2751.8	1265.8	475.9	486.1	536.7	655.7	767.1	734.2	673.4	681.0	675.9
80°	1068.3	600.0	387.3	400.0	432.9	524.0	635.4	605.1	551.9	541.8	536.7
82.5°	513.9	334.2	298.7	303.8	316.4	417.7	546.8	508.9	438.0	392.4	392.4
85°	258.2	207.6	210.1	192.4	210.1	283.5	369.6	308.9	255.7	227.8	232.9
87.5°	103.8	103.8	103.8	88.6	93.7	134.2	172.1	116.5	106.3	63.3	63.3
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)