

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: P480558

Luminaire Tested: **IFLD-M-SA4D-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480558
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

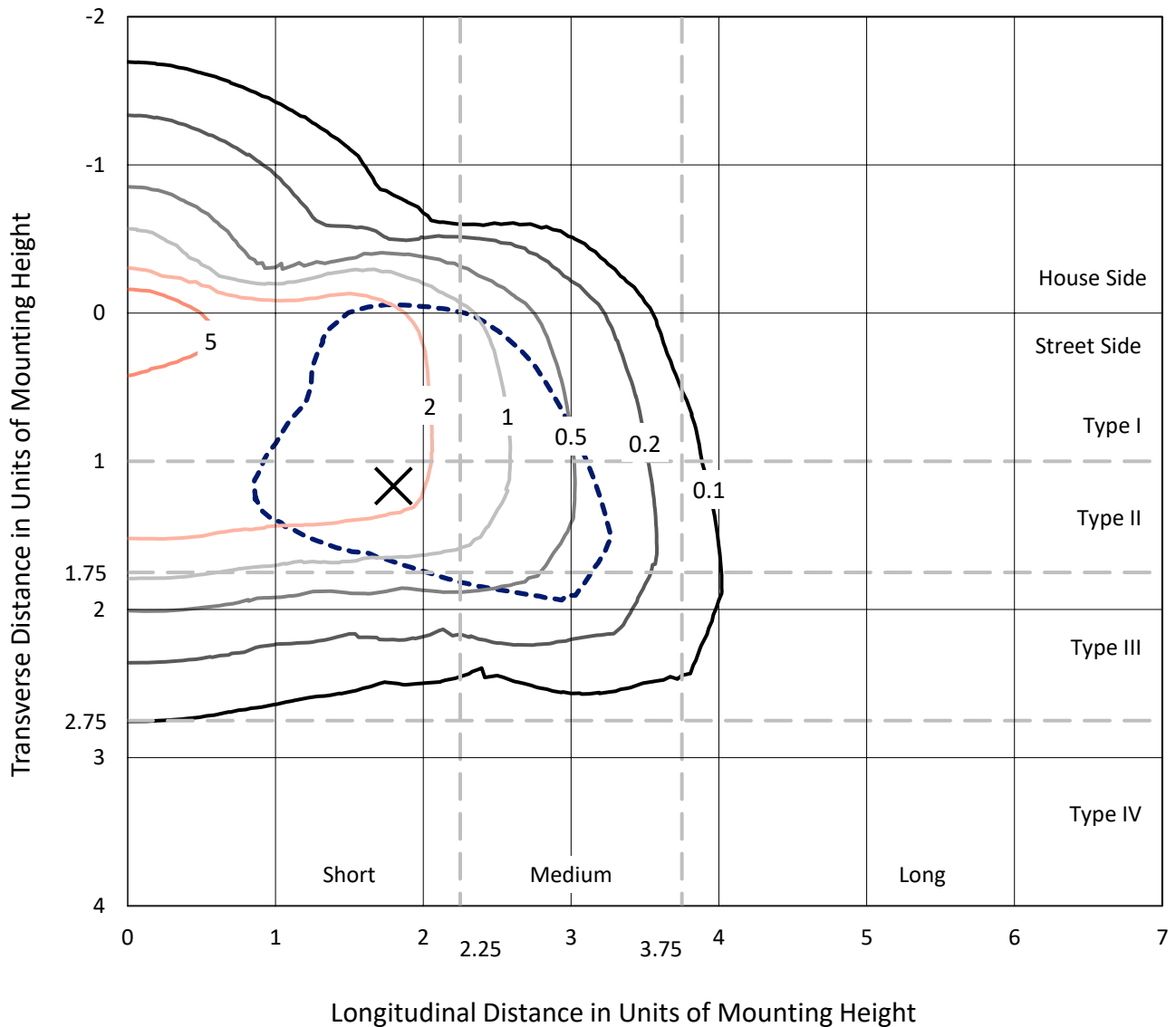
Lumens per Lamp: N/A
Luminaire Lumens: 31575.5 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

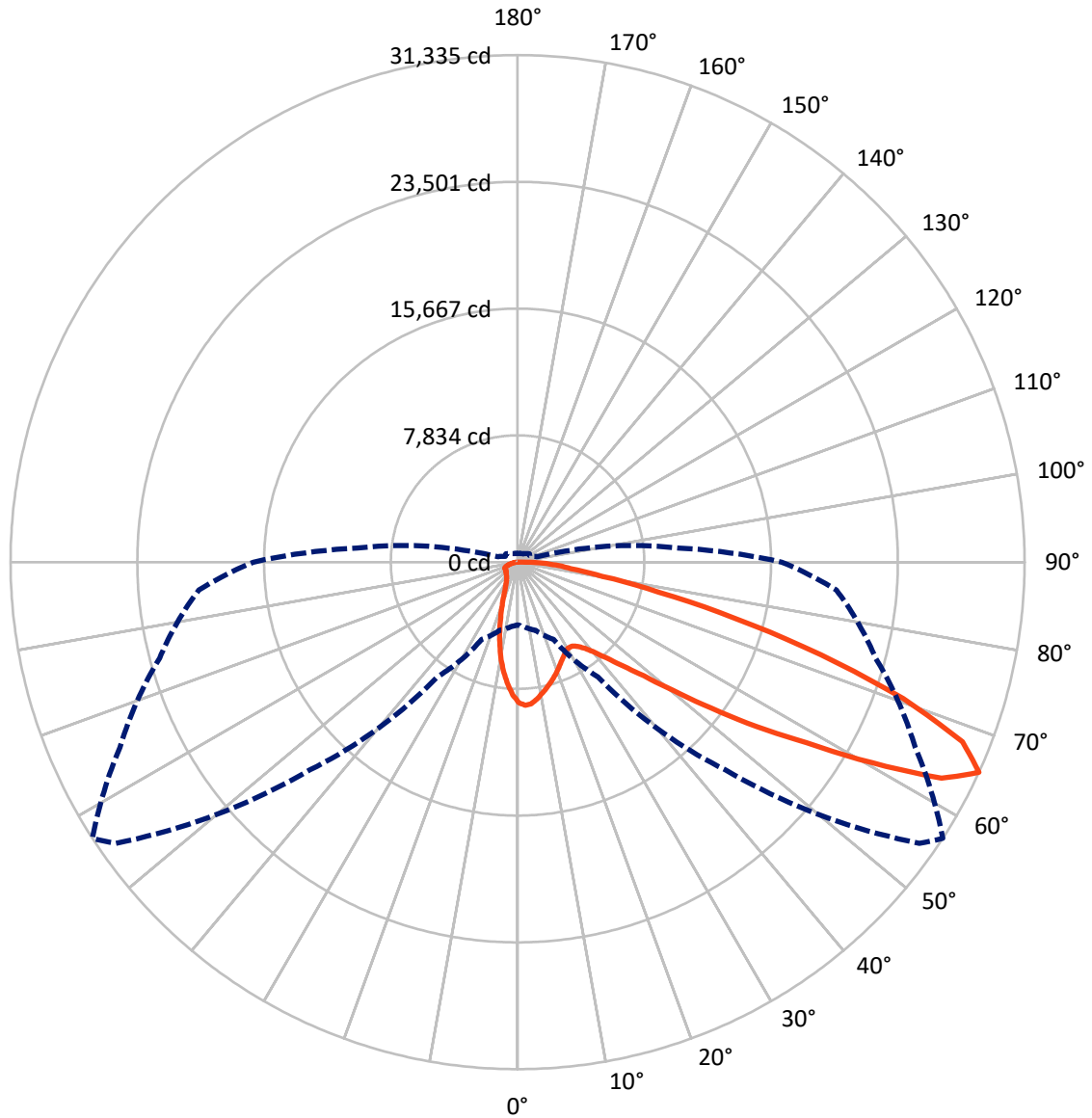
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4842.4	0.0	4842.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	26733.1	0.0	26733.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	31575.5	0.0	31575.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.1	2.3
10°-20°	1564.9	5.0
20°-30°	2023.2	6.4
30°-40°	2722.6	8.6
40°-50°	4341.3	13.7
50°-60°	7667.9	24.3
60°-70°	8435.7	26.7
70°-80°	3528.8	11.2
80°-90°	564.0	1.8
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°	31575.5	100.0
0°-180°	31575.5	100.0

Coefficient of Utilization



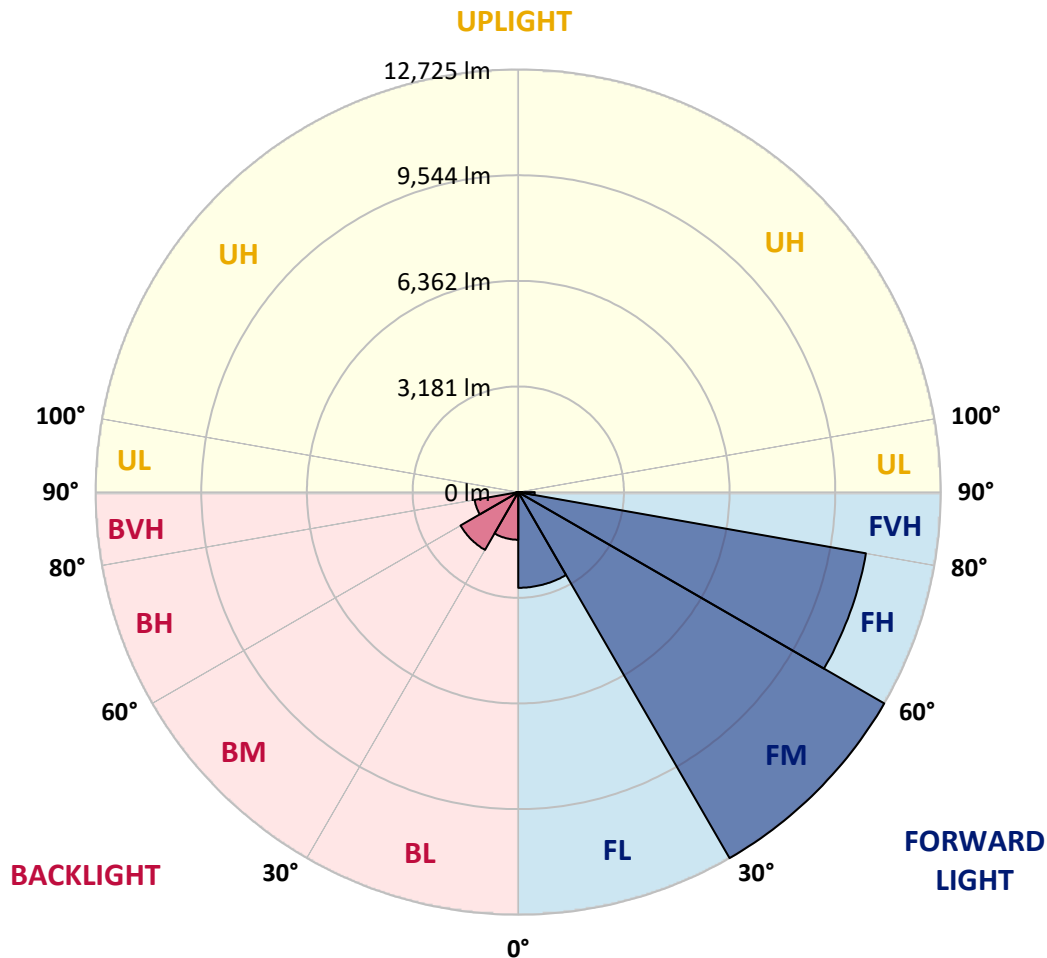
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2881.2	9.1			
FM (30°-60°)	12724.9	40.3			
FH (60°-80°)	10629.3	33.7			G4/12000
FVH (80°-90°)	497.8	1.6			G3/500
BL (0°-30°)	1434.1	4.5	B3/2500		
BM (30°-60°)	2007.0	6.4	B2/2500		
BH (60°-80°)	1335.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	66.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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 CATALOG NUMBER: IFLD-M-SA4D-750-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8
2.5°	8917.3	8931.5	8931.5	8959.9	8864.0	8910.2	8903.1	8860.5	8874.7	8800.1	8725.5
5°	8665.1	8654.4	8711.3	8718.4	8793.0	8814.3	8832.0	8803.6	8810.7	8647.3	8576.2
7.5°	8018.5	8014.9	8110.8	8192.6	8348.9	8494.5	8590.5	8562.0	8601.1	8498.1	8331.1
10°	7251.1	7332.8	7432.3	7514.0	7801.8	7986.5	8235.2	8260.1	8409.3	8384.4	8082.4
12.5°	6675.5	6711.1	6785.7	7020.2	7283.1	7588.6	7943.9	7975.8	8121.5	8192.6	7929.7
15°	6203.0	6235.0	6330.9	6505.0	6799.9	7162.3	7613.5	7695.2	7986.5	8011.4	7730.7
17.5°	5858.4	5883.3	5947.2	6121.3	6362.9	6828.3	7254.6	7400.3	7784.0	7904.8	7524.6
20°	5723.4	5670.1	5705.7	5815.8	6057.4	6416.2	6966.9	7094.8	7585.0	7823.1	7329.2
22.5°	5663.0	5616.8	5638.2	5631.0	5822.9	6078.7	6657.8	6792.8	7396.7	7727.2	7155.2
25°	5709.2	5709.2	5687.9	5670.1	5691.4	5858.4	6323.8	6533.4	7144.5	7645.4	6977.5
27.5°	5957.9	5862.0	5872.6	5798.0	5776.7	5776.7	6174.6	6299.0	7062.8	7599.3	6831.9
30°	6117.8	6164.0	6167.5	6057.4	5947.2	5748.3	6036.1	6156.9	6995.3	7656.1	6746.6
32.5°	6526.3	6505.0	6444.6	6423.3	6259.9	6036.1	6103.6	6185.3	6956.2	7784.0	6771.5
35°	6934.9	6924.2	6927.8	6917.1	6746.6	6416.2	6284.7	6394.9	7027.3	8007.8	6856.7
37.5°	7357.7	7386.1	7506.9	7506.9	7325.7	6966.9	6792.8	6760.8	7286.6	8373.7	7059.2
40°	7780.4	7851.5	8004.3	8245.8	7990.1	7656.1	7375.4	7325.7	7599.3	8864.0	7546.0
42.5°	8185.5	8302.7	8604.7	8963.5	8878.2	8544.3	8171.2	8114.4	8242.3	9592.3	8224.5
45°	8704.1	8803.6	9279.7	9830.4	9947.6	9652.7	9215.7	9169.6	9162.4	10658.1	9158.9
47.5°	9492.8	9599.4	10075.5	10629.7	10992.1	11038.3	10548.0	10498.3	10327.7	12097.0	10526.7
50°	10480.5	10654.6	11056.0	11702.6	12228.4	12722.3	12583.7	12438.0	12104.1	13770.3	12260.4
52.5°	11201.7	11414.9	11958.4	12786.2	13713.5	14498.6	14996.0	14996.0	14228.6	15607.1	14345.9
55°	11393.5	11521.4	12207.1	13404.4	14992.4	16978.4	18019.4	17941.2	16758.1	17539.7	16772.4
57.5°	10629.7	10796.7	11628.0	12882.1	15663.9	19298.3	21021.4	21039.2	19522.2	19785.1	19166.9
60°	8526.5	8579.8	9560.3	11237.2	15017.3	21167.1	25121.2	25188.7	22666.3	21785.2	20385.5
62.5°	5894.0	6064.5	6803.4	8274.3	12441.6	20957.5	29075.4	29409.4	25185.2	22840.4	20577.3
65°	3879.6	3982.6	4376.9	5272.2	8661.5	18165.0	30304.6	31334.9	27110.8	22900.8	19774.4
67.5°	2813.7	2831.5	2948.8	3410.6	5204.7	13063.3	28205.0	29658.0	27832.0	22396.3	17891.5
70°	2273.7	2287.9	2330.6	2625.5	3360.9	8174.8	23003.8	25281.1	25668.3	20005.3	14409.8
72.5°	1847.4	1865.2	1918.5	2195.6	2771.1	4547.5	16822.1	19596.8	20879.3	14800.6	9578.1
75°	1453.1	1467.3	1595.2	1868.7	2604.1	3122.8	11159.1	13876.9	14051.0	8650.9	4483.5
77.5°	994.8	1019.6	1175.9	1584.5	2451.4	2732.0	6956.2	8888.9	7975.8	3385.7	1541.9
80°	632.4	667.9	760.3	1200.8	2167.2	2607.7	4327.2	5307.8	3492.3	1158.2	742.5
82.5°	373.0	408.6	500.9	778.0	1701.7	2419.4	3048.2	3321.8	1637.8	593.3	447.6
85°	206.1	230.9	302.0	469.0	998.3	2149.4	2440.7	2383.9	937.9	316.2	280.7
87.5°	67.5	78.2	110.1	188.3	412.1	1012.5	1463.7	1374.9	486.7	145.7	110.1
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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 CATALOG NUMBER: IFLD-M-SA4D-750-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8	8682.8
2.5°	8675.7	8665.1	8505.2	8384.4	8178.3	8007.8	7940.3	7847.9	7844.4	7776.9	7759.1
5°	8466.1	8356.0	8110.8	7876.4	7510.4	7265.3	7041.5	6885.2	6821.2	6682.7	6650.7
7.5°	8196.1	8050.4	7673.9	7233.3	6803.4	6419.8	6071.6	5723.4	5528.0	5460.5	5385.9
10°	7915.4	7659.6	7101.9	6608.0	6007.6	5417.9	4870.8	4380.5	4114.0	3925.7	3844.0
12.5°	7691.6	7350.6	6640.0	5901.1	5108.8	4320.1	3684.2	3169.0	2867.0	2724.9	2661.0
15°	7439.4	6988.2	6135.5	5201.2	4213.5	3318.2	2696.5	2291.5	2170.7	2103.2	2092.5
17.5°	7172.9	6650.7	5588.4	4511.9	3339.5	2497.6	2096.1	1932.7	1879.4	1851.0	1836.8
20°	6924.2	6348.7	5027.1	3744.6	2614.8	2003.7	1815.4	1730.2	1726.6	1740.8	1737.3
22.5°	6572.5	5954.3	4472.9	3034.0	2089.0	1744.4	1623.6	1602.3	1623.6	1641.4	1648.5
25°	6373.6	5631.0	3854.7	2408.7	1726.6	1549.0	1509.9	1502.8	1534.8	1556.1	1552.5
27.5°	6167.5	5297.1	3279.2	1929.1	1513.5	1410.4	1403.3	1410.4	1442.4	1474.4	1470.8
30°	6007.6	5030.6	2739.1	1612.9	1350.0	1311.0	1303.8	1311.0	1328.7	1332.3	1332.3
32.5°	5876.2	4714.4	2280.8	1399.8	1250.6	1218.6	1225.7	1222.1	1225.7	1229.2	1232.8
35°	5798.0	4526.2	1904.3	1268.3	1168.8	1144.0	1140.4	1129.8	1133.3	1136.9	1133.3
37.5°	5965.0	4433.8	1605.8	1175.9	1112.0	1090.7	1083.6	1076.5	1065.8	1065.8	1065.8
40°	6217.2	4384.0	1424.6	1115.6	1069.4	1044.5	1023.2	1016.1	1016.1	1019.6	1023.2
42.5°	6718.2	4465.8	1300.3	1069.4	1016.1	987.7	966.3	969.9	980.5	991.2	984.1
45°	7442.9	4714.4	1243.4	1033.8	984.1	945.0	930.8	927.3	937.9	955.7	969.9
47.5°	8391.5	5101.7	1222.1	1001.9	962.8	909.5	891.7	902.4	916.6	941.5	930.8
50°	9944.0	5972.1	1239.9	973.4	930.8	891.7	870.4	859.8	870.4	888.2	895.3
52.5°	11972.6	7553.1	1307.4	959.2	909.5	877.5	842.0	824.2	834.9	849.1	849.1
55°	14399.1	9713.1	1495.7	941.5	874.0	856.2	817.1	781.6	788.7	788.7	785.1
57.5°	16537.9	11343.8	1719.5	916.6	852.7	827.8	778.0	735.4	728.3	731.9	735.4
60°	17497.1	11777.2	1826.1	909.5	852.7	792.3	724.8	682.1	671.5	664.4	664.4
62.5°	17330.1	11027.6	1609.4	877.5	874.0	763.8	675.0	628.8	614.6	600.4	604.0
65°	16321.2	9958.3	1268.3	834.9	877.5	746.1	625.3	579.1	554.2	536.5	532.9
67.5°	14477.3	8501.6	1005.4	802.9	842.0	714.1	582.6	529.4	508.0	490.3	483.2
70°	11326.0	6664.9	874.0	760.3	756.7	635.9	532.9	486.7	454.7	433.4	433.4
72.5°	7343.5	4213.5	749.6	675.0	653.7	532.9	461.9	433.4	408.6	390.8	390.8
75°	3325.3	1957.5	604.0	564.9	532.9	426.3	390.8	376.6	355.3	337.5	337.5
77.5°	1193.7	834.9	451.2	444.1	397.9	330.4	316.2	305.5	291.3	273.6	273.6
80°	667.9	529.4	337.5	323.3	277.1	245.1	227.4	227.4	220.3	209.6	206.1
82.5°	422.8	344.6	248.7	216.7	181.2	163.4	156.3	152.8	149.2	135.0	131.5
85°	266.5	234.5	163.4	127.9	106.6	81.7	78.2	74.6	67.5	60.4	60.4
87.5°	120.8	135.0	63.9	39.1	28.4	17.8	10.7	3.6	0.0	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)