

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: P480557

Luminaire Tested: **IFLD-M-SA4C-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480557
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-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

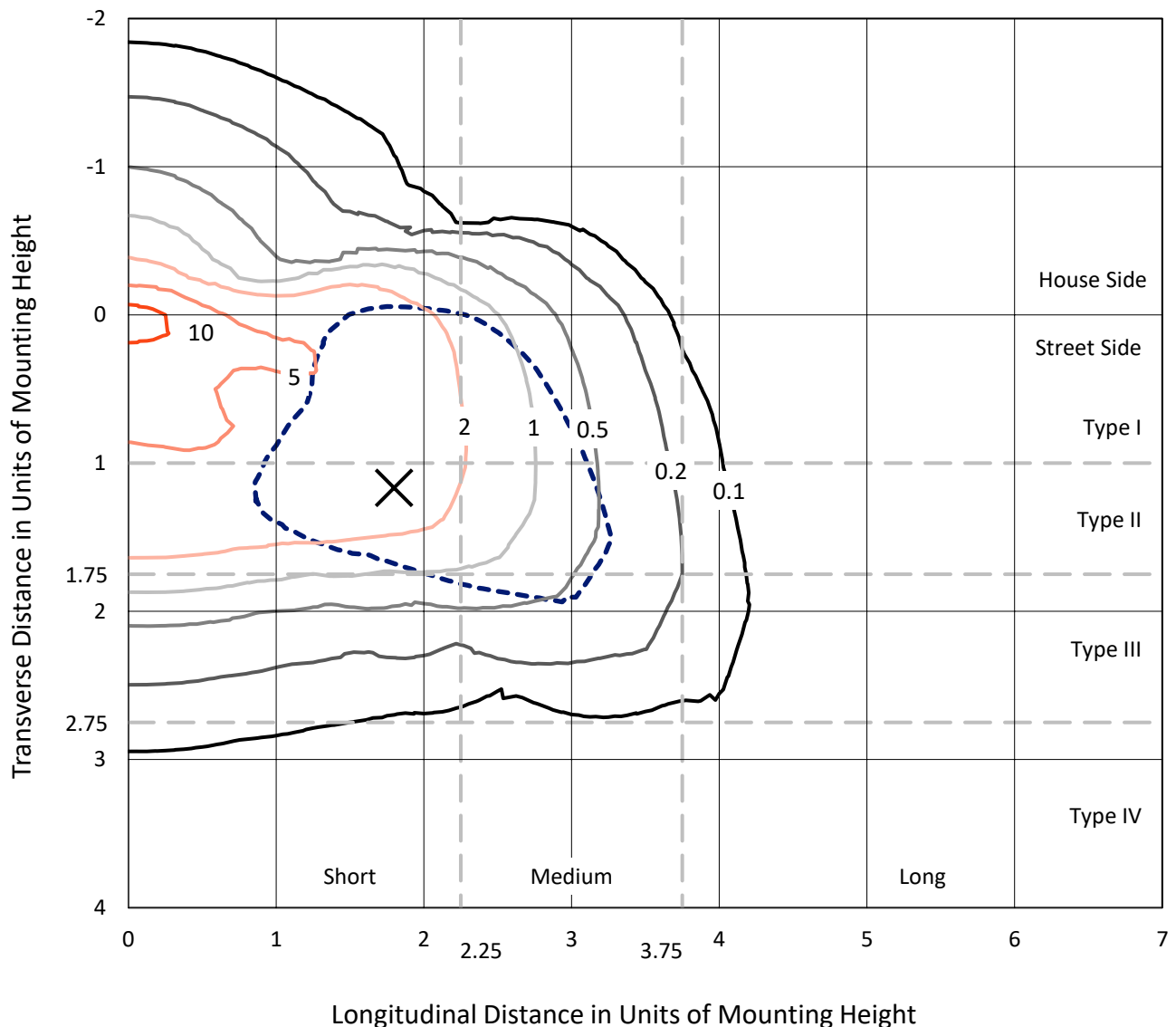
Lumens per Lamp: N/A
Luminaire Lumens: 28696.7 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

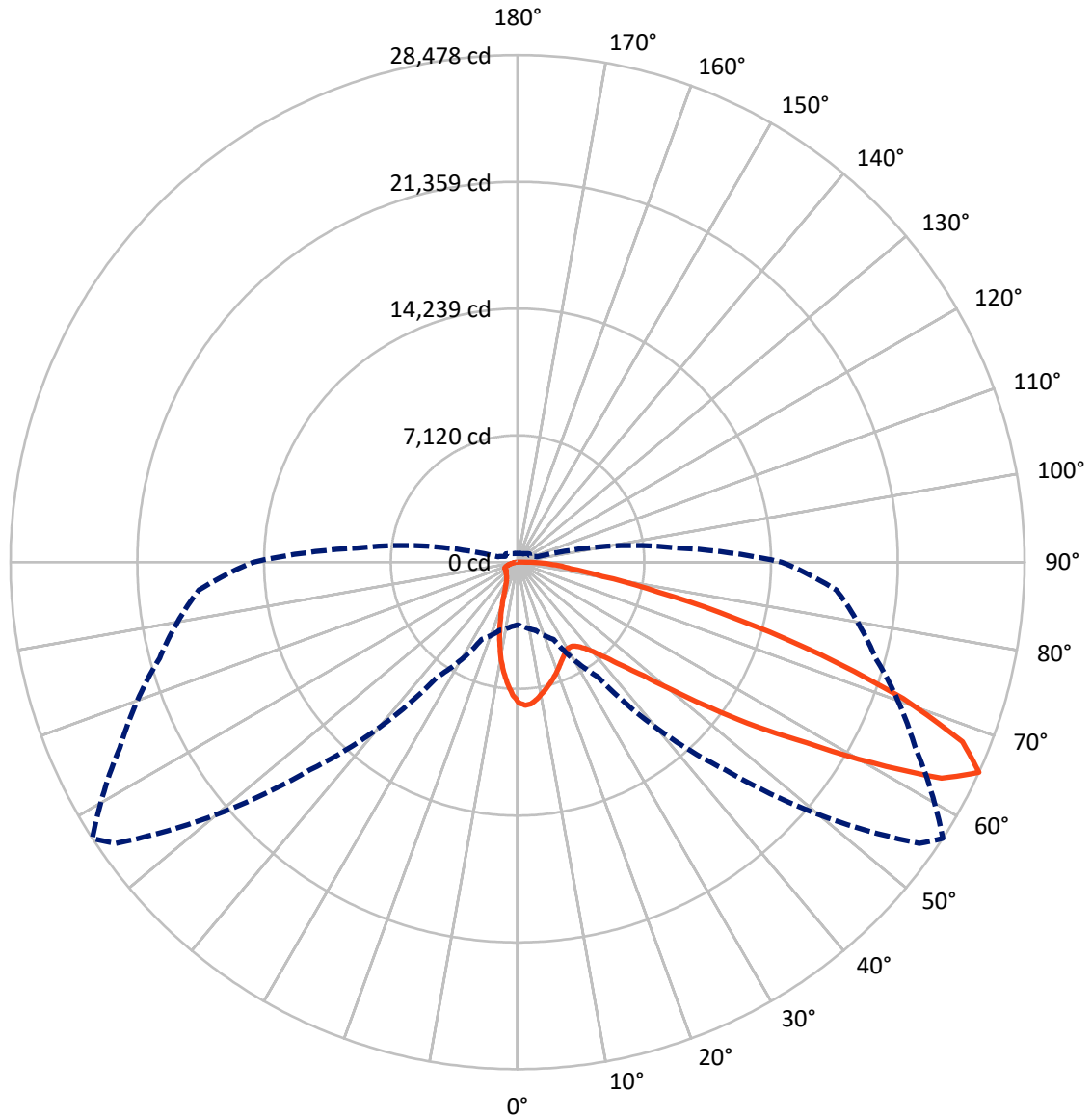
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	4400.9	0.0	4400.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24295.8	0.0	24295.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	28696.7	0.0	28696.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.8	2.3
10°-20°	1422.2	5.0
20°-30°	1838.8	6.4
30°-40°	2474.4	8.6
40°-50°	3945.5	13.7
50°-60°	6968.8	24.3
60°-70°	7666.6	26.7
70°-80°	3207.1	11.2
80°-90°	512.5	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°	28696.7	100.0
0°-180°	28696.7	100.0

Coefficient of Utilization

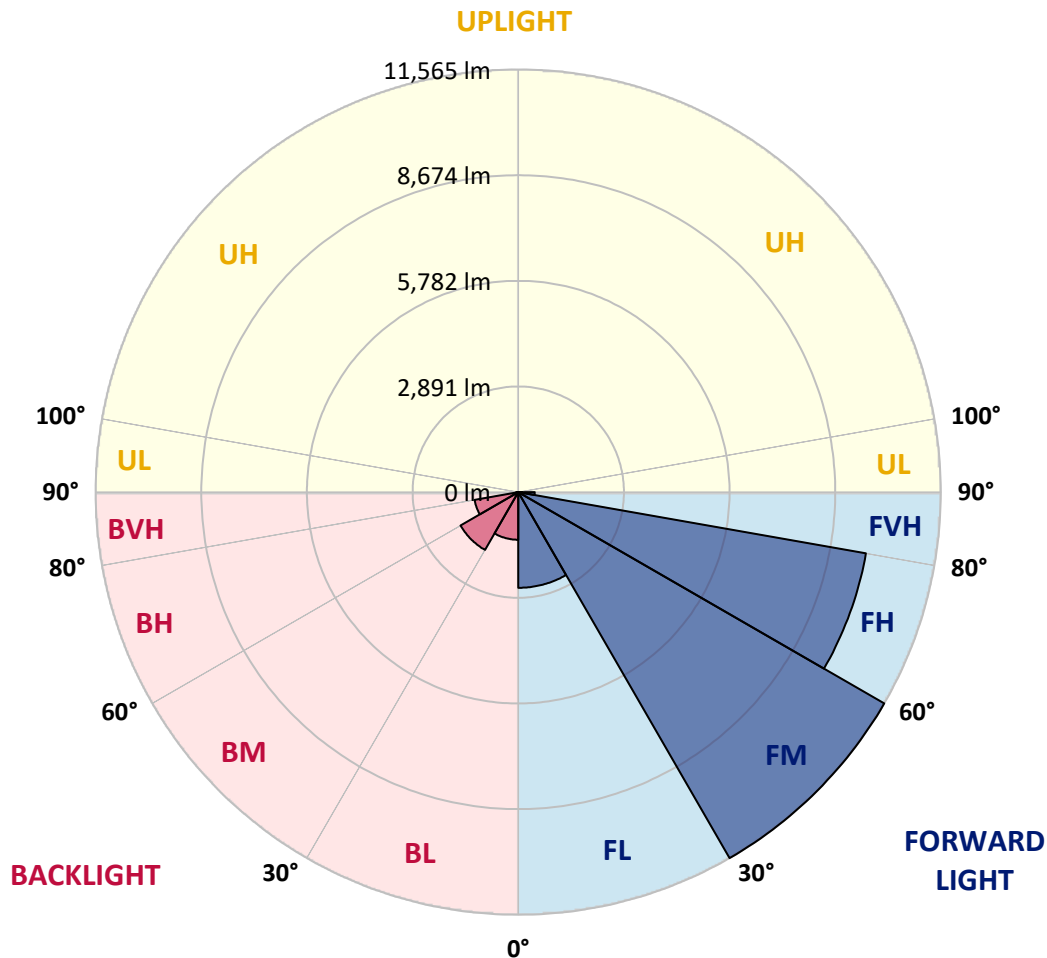


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2618.5	9.1			
FM (30°-60°)	11564.7	40.3			
FH (60°-80°)	9660.2	33.7			G4/12000
FVH (80°-90°)	452.4	1.6			G3/500
BL (0°-30°)	1303.3	4.5	B3/2500		
BM (30°-60°)	1824.0	6.4	B2/2500		
BH (60°-80°)	1213.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	60.1	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2
2.5°	8104.3	8117.2	8117.2	8143.0	8055.9	8097.8	8091.4	8052.6	8065.5	7997.7	7929.9
5°	7875.0	7865.4	7917.0	7923.5	7991.3	8010.7	8026.8	8001.0	8007.4	7858.9	7794.3
7.5°	7287.4	7284.2	7371.4	7445.6	7587.7	7720.1	7807.2	7781.4	7816.9	7723.3	7571.5
10°	6590.0	6664.2	6754.7	6828.9	7090.4	7258.3	7484.4	7507.0	7642.6	7620.0	7345.5
12.5°	6066.9	6099.2	6167.0	6380.1	6619.0	6896.7	7219.6	7248.7	7381.0	7445.6	7206.7
15°	5637.5	5666.5	5753.7	5911.9	6179.9	6509.3	6919.3	6993.6	7258.3	7280.9	7025.9
17.5°	5324.3	5346.9	5405.0	5563.2	5782.8	6205.8	6593.2	6725.6	7074.3	7184.1	6838.6
20°	5201.6	5153.2	5185.5	5285.5	5505.1	5831.2	6331.7	6447.9	6893.5	7109.8	6661.0
22.5°	5146.7	5104.7	5124.1	5117.7	5292.0	5524.5	6050.8	6173.5	6722.4	7022.6	6502.8
25°	5188.7	5188.7	5169.3	5153.2	5172.5	5324.3	5747.3	5937.8	6493.1	6948.4	6341.4
27.5°	5414.7	5327.5	5337.2	5269.4	5250.0	5250.0	5611.7	5724.7	6418.9	6906.4	6209.0
30°	5560.0	5602.0	5605.2	5505.1	5405.0	5224.2	5485.7	5595.5	6357.5	6958.1	6131.5
32.5°	5931.3	5911.9	5857.0	5837.7	5689.1	5485.7	5547.1	5621.3	6322.0	7074.3	6154.1
35°	6302.6	6292.9	6296.2	6286.5	6131.5	5831.2	5711.8	5811.8	6386.6	7277.7	6231.6
37.5°	6686.8	6712.7	6822.5	6822.5	6657.8	6331.7	6173.5	6144.4	6622.3	7610.3	6415.6
40°	7071.1	7135.7	7274.5	7494.0	7261.6	6958.1	6703.0	6657.8	6906.4	8055.9	6858.0
42.5°	7439.2	7545.7	7820.2	8146.3	8068.8	7765.3	7426.2	7374.6	7490.8	8717.8	7474.7
45°	7910.6	8001.0	8433.6	8934.1	9040.6	8772.7	8375.5	8333.5	8327.1	9686.4	8323.9
47.5°	8627.4	8724.2	9156.9	9660.6	9989.9	10031.9	9586.3	9541.1	9386.1	10994.1	9566.9
50°	9525.0	9683.2	10048.0	10635.7	11113.5	11562.3	11436.4	11304.0	11000.5	12514.8	11142.6
52.5°	10180.4	10374.1	10868.1	11620.5	12463.2	13176.7	13628.8	13628.8	12931.4	14184.1	13037.9
55°	10354.8	10471.0	11094.2	12182.3	13625.5	15430.4	16376.5	16305.4	15230.3	15940.6	15243.2
57.5°	9660.6	9812.3	10567.9	11707.6	14235.8	17538.9	19104.8	19121.0	17742.3	17981.2	17419.4
60°	7749.1	7797.6	8688.7	10212.7	13648.1	19237.2	22830.9	22892.2	20599.8	19799.0	18526.9
62.5°	5356.6	5511.6	6183.2	7519.9	11307.3	19046.7	26424.5	26728.0	22889.0	20758.0	18701.2
65°	3525.9	3619.5	3977.9	4791.5	7871.8	16508.9	27541.7	28478.0	24639.0	20812.9	17971.5
67.5°	2557.2	2573.4	2679.9	3099.6	4730.2	11872.3	25633.5	26954.0	25294.4	20354.4	16260.2
70°	2066.4	2079.3	2118.1	2386.1	3054.4	7429.5	20906.5	22976.2	23328.1	18181.4	13096.0
72.5°	1679.0	1695.1	1743.6	1995.4	2518.5	4132.9	15288.4	17810.1	18975.7	13451.2	8704.8
75°	1320.6	1333.5	1449.7	1698.3	2366.7	2838.1	10141.7	12611.7	12769.9	7862.1	4074.7
77.5°	904.1	926.7	1068.7	1440.0	2227.9	2482.9	6322.0	8078.5	7248.7	3077.0	1401.3
80°	574.7	607.0	691.0	1091.3	1969.6	2369.9	3932.7	4823.8	3173.9	1052.6	674.8
82.5°	339.0	371.3	455.3	707.1	1546.6	2198.8	2770.3	3018.9	1488.5	539.2	406.8
85°	187.3	209.9	274.4	426.2	907.3	1953.4	2218.2	2166.5	852.4	287.4	255.1
87.5°	61.3	71.0	100.1	171.1	374.5	920.2	1330.3	1249.5	442.3	132.4	100.1
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-SA4C-750-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2	7891.2
2.5°	7884.7	7875.0	7729.8	7620.0	7432.7	7277.7	7216.4	7132.4	7129.2	7067.8	7051.7
5°	7694.2	7594.1	7371.4	7158.3	6825.7	6602.9	6399.5	6257.4	6199.3	6073.4	6044.3
7.5°	7448.8	7316.5	6974.2	6573.8	6183.2	5834.4	5518.0	5201.6	5024.0	4962.7	4894.9
10°	7193.8	6961.3	6454.4	6005.6	5459.9	4923.9	4426.7	3981.1	3739.0	3567.8	3493.6
12.5°	6990.4	6680.4	6034.6	5363.0	4643.0	3926.2	3348.3	2880.1	2605.6	2476.5	2418.4
15°	6761.1	6351.1	5576.1	4727.0	3829.4	3015.7	2450.7	2082.6	1972.8	1911.5	1901.8
17.5°	6519.0	6044.3	5078.9	4100.6	3035.1	2269.8	1905.0	1756.5	1708.0	1682.2	1669.3
20°	6292.9	5769.9	4568.8	3403.2	2376.4	1821.0	1649.9	1572.4	1569.2	1582.1	1578.9
22.5°	5973.3	5411.5	4065.1	2757.4	1898.5	1585.3	1475.6	1456.2	1475.6	1491.7	1498.2
25°	5792.5	5117.7	3503.2	2189.1	1569.2	1407.8	1372.2	1365.8	1394.8	1414.2	1411.0
27.5°	5605.2	4814.1	2980.2	1753.2	1375.5	1281.8	1275.4	1281.8	1310.9	1340.0	1336.7
30°	5459.9	4572.0	2489.4	1465.9	1226.9	1191.4	1185.0	1191.4	1207.6	1210.8	1210.8
32.5°	5340.4	4284.6	2072.9	1272.1	1136.5	1107.5	1113.9	1110.7	1113.9	1117.2	1120.4
35°	5269.4	4113.5	1730.6	1152.7	1062.3	1039.7	1036.4	1026.8	1030.0	1033.2	1030.0
37.5°	5421.2	4029.5	1459.4	1068.7	1010.6	991.2	984.8	978.3	968.6	968.6	968.6
40°	5650.4	3984.3	1294.7	1013.8	971.9	949.3	929.9	923.4	923.4	926.7	929.9
42.5°	6105.7	4058.6	1181.7	971.9	923.4	897.6	878.2	881.5	891.1	900.8	894.4
45°	6764.3	4284.6	1130.1	939.6	894.4	858.9	845.9	842.7	852.4	868.5	881.5
47.5°	7626.4	4636.6	1110.7	910.5	875.0	826.6	810.4	820.1	833.0	855.6	845.9
50°	9037.4	5427.6	1126.9	884.7	845.9	810.4	791.1	781.4	791.1	807.2	813.7
52.5°	10881.1	6864.4	1188.2	871.8	826.6	797.5	765.2	749.1	758.8	771.7	771.7
55°	13086.3	8827.5	1359.3	855.6	794.3	778.1	742.6	710.3	716.8	716.8	713.6
57.5°	15030.1	10309.6	1562.7	833.0	774.9	752.3	707.1	668.4	661.9	665.1	668.4
60°	15901.8	10703.5	1659.6	826.6	774.9	720.0	658.7	619.9	610.2	603.8	603.8
62.5°	15750.1	10022.2	1462.6	797.5	794.3	694.2	613.5	571.5	558.6	545.7	548.9
65°	14833.1	9050.3	1152.7	758.8	797.5	678.0	568.3	526.3	503.7	487.5	484.3
67.5°	13157.4	7726.5	913.8	729.7	765.2	649.0	529.5	481.1	461.7	445.6	439.1
70°	10293.4	6057.2	794.3	691.0	687.7	578.0	484.3	442.3	413.3	393.9	393.9
72.5°	6673.9	3829.4	681.3	613.5	594.1	484.3	419.7	393.9	371.3	355.2	355.2
75°	3022.2	1779.1	548.9	513.4	484.3	387.5	355.2	342.3	322.9	306.7	306.7
77.5°	1084.9	758.8	410.1	403.6	361.6	300.3	287.4	277.7	264.8	248.6	248.6
80°	607.0	481.1	306.7	293.8	251.8	222.8	206.6	206.6	200.2	190.5	187.3
82.5°	384.2	313.2	226.0	197.0	164.7	148.5	142.1	138.8	135.6	122.7	119.5
85°	242.2	213.1	148.5	116.2	96.9	74.3	71.0	67.8	61.3	54.9	54.9
87.5°	109.8	122.7	58.1	35.5	25.8	16.1	9.7	3.2	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)