

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: P480371

Luminaire Tested: **IFLD-L-SA8B-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480371
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

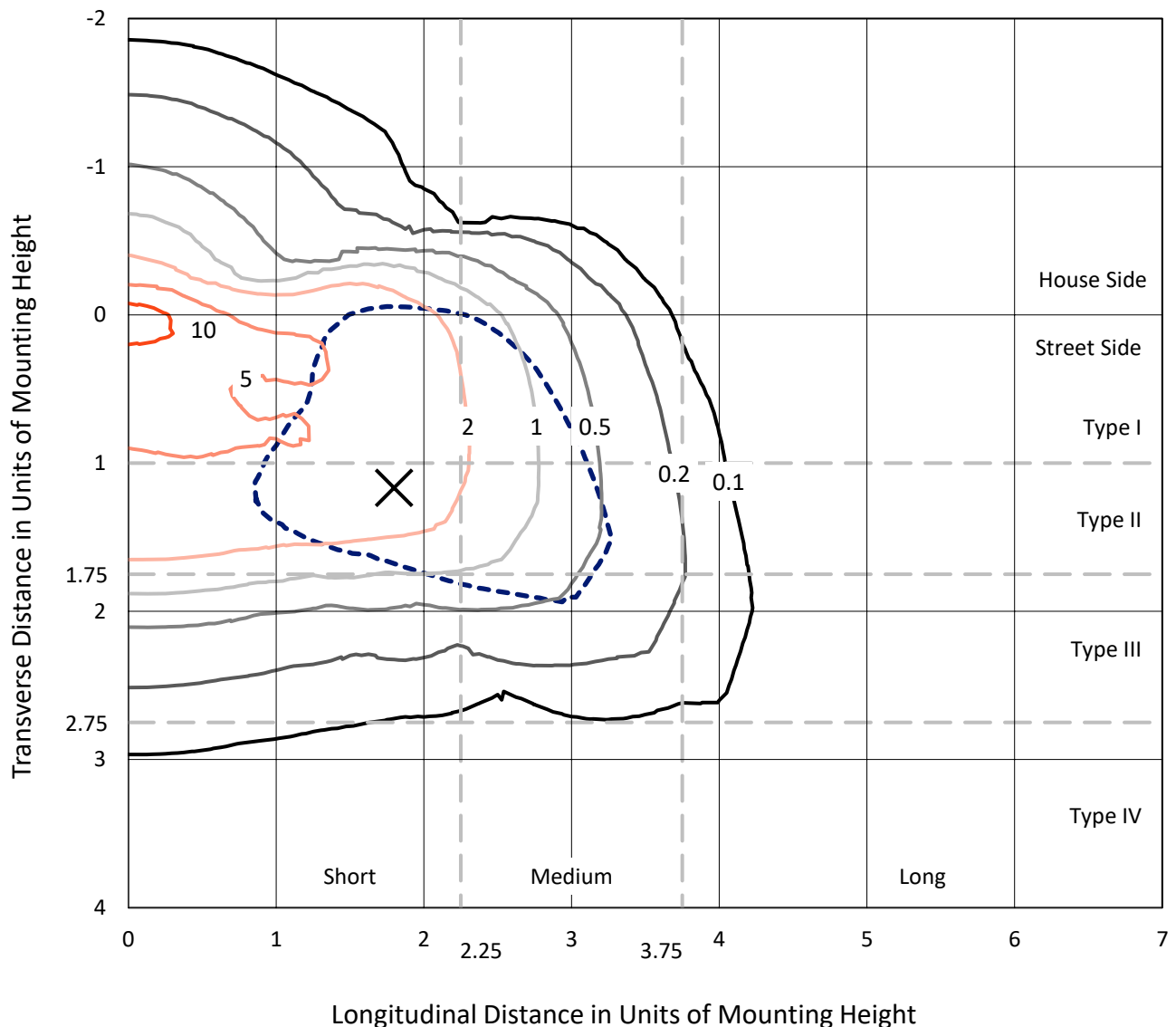
Lumens per Lamp: N/A
Luminaire Lumens: 29580.7 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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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 CATALOG NUMBER: IFLD-L-SA8B-722-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

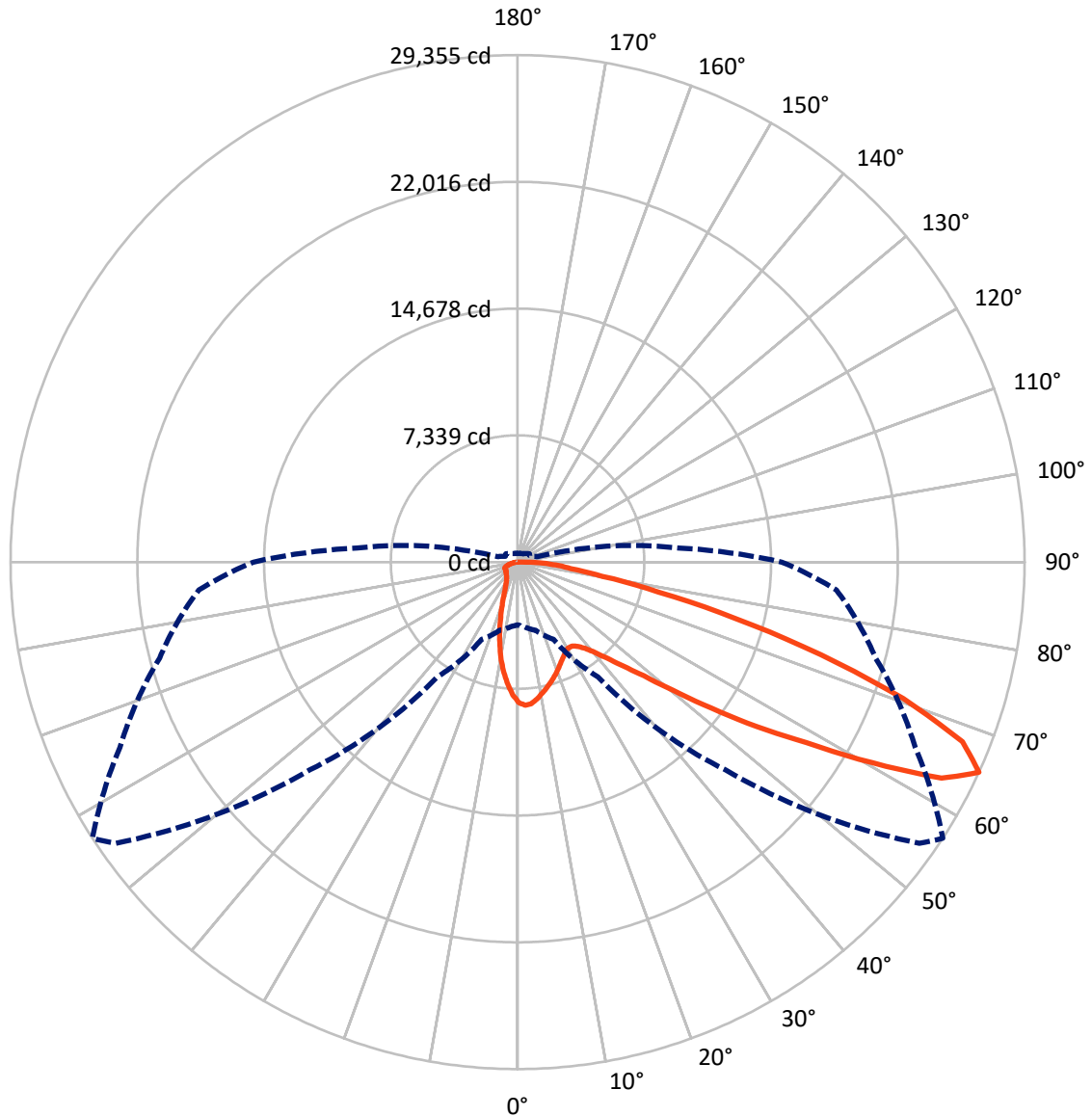
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Short - N/A

REPORT NUMBER: P480371
CATALOG NUMBER: IFLD-L-SA8B-722-U-SL3

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	4536.5	0.0	4536.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25044.2	0.0	25044.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	29580.7	0.0	29580.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.2	2.3
10°-20°	1466.0	5.0
20°-30°	1895.4	6.4
30°-40°	2550.6	8.6
40°-50°	4067.1	13.7
50°-60°	7183.4	24.3
60°-70°	7902.7	26.7
70°-80°	3305.8	11.2
80°-90°	528.3	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°	29580.7	100.0
0°-180°	29580.7	100.0

Coefficient of Utilization



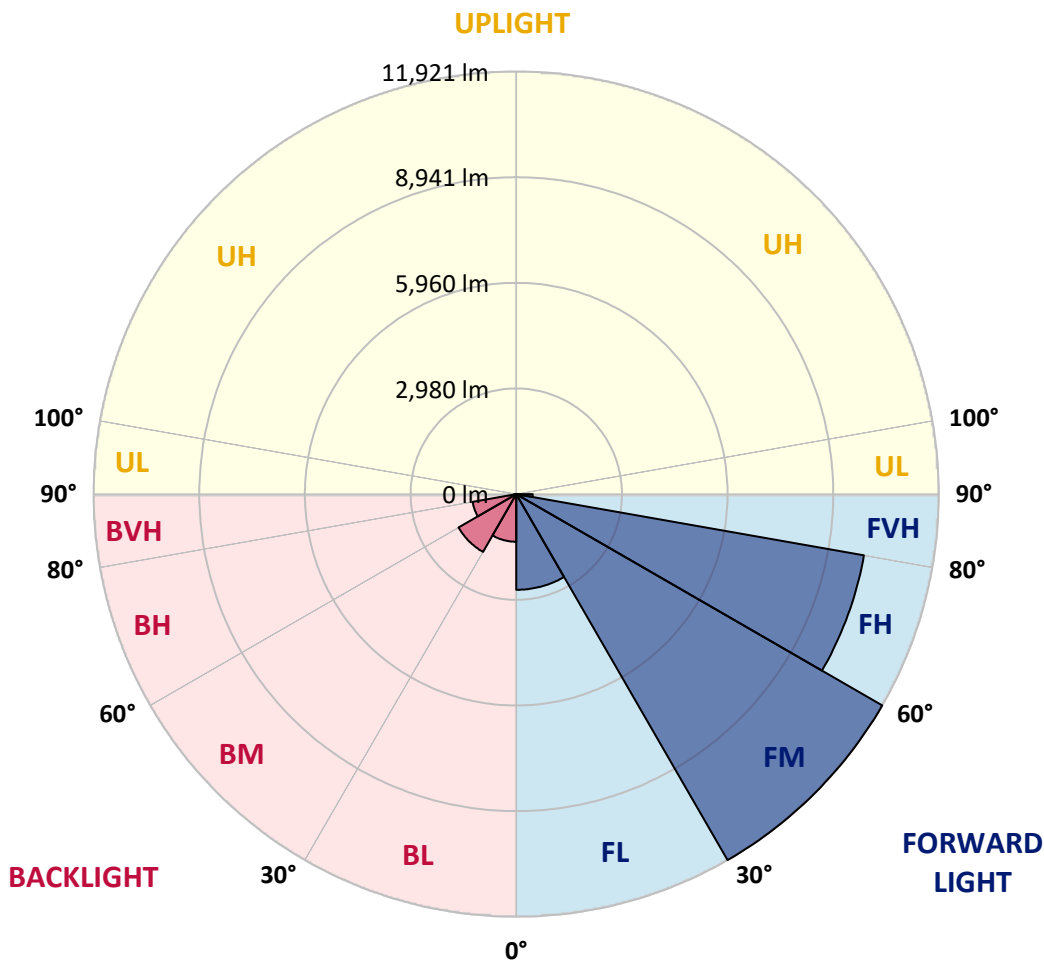
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2699.1	9.1			
FM (30°-60°)	11921.0	40.3			
FH (60°-80°)	9957.7	33.7			G4/12000
FVH (80°-90°)	466.4	1.6			G3/500
BL (0°-30°)	1343.5	4.5	B3/2500		
BM (30°-60°)	1880.2	6.4	B2/2500		
BH (60°-80°)	1250.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	62.0	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-L-SA8B-722-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3
2.5°	8353.9	8367.3	8367.3	8393.9	8304.0	8347.3	8340.6	8300.7	8314.0	8244.1	8174.2
5°	8117.6	8107.6	8160.9	8167.6	8237.5	8257.4	8274.1	8247.4	8254.1	8101.0	8034.4
7.5°	7511.9	7508.6	7598.4	7675.0	7821.4	7957.9	8047.7	8021.1	8057.7	7961.2	7804.8
10°	6793.0	6869.5	6962.7	7039.3	7308.9	7481.9	7714.9	7738.2	7878.0	7854.7	7571.8
12.5°	6253.8	6287.1	6357.0	6576.6	6822.9	7109.2	7442.0	7472.0	7608.4	7675.0	7428.7
15°	5811.1	5841.1	5931.0	6094.1	6370.3	6709.8	7132.5	7209.0	7481.9	7505.2	7242.3
17.5°	5488.3	5511.6	5571.5	5734.6	5960.9	6396.9	6796.3	6932.8	7292.2	7405.4	7049.3
20°	5361.8	5311.9	5345.2	5448.4	5674.7	6010.8	6526.7	6646.5	7105.8	7328.8	6866.2
22.5°	5305.3	5262.0	5282.0	5275.3	5455.0	5694.7	6237.2	6363.6	6929.4	7239.0	6703.1
25°	5348.5	5348.5	5328.5	5311.9	5331.9	5488.3	5924.3	6120.7	6693.1	7162.4	6536.7
27.5°	5581.5	5491.6	5501.6	5431.7	5411.8	5411.8	5784.5	5901.0	6616.6	7119.2	6400.3
30°	5731.3	5774.5	5777.9	5674.7	5571.5	5385.1	5654.7	5767.9	6553.4	7172.4	6320.4
32.5°	6114.0	6094.1	6037.5	6017.5	5864.4	5654.7	5718.0	5794.5	6516.7	7292.2	6343.7
35°	6496.8	6486.8	6490.1	6480.1	6320.4	6010.8	5887.7	5990.9	6583.3	7501.9	6423.5
37.5°	6892.8	6919.5	7032.6	7032.6	6862.9	6526.7	6363.6	6333.7	6826.3	7844.7	6613.3
40°	7288.9	7355.5	7498.6	7724.9	7485.3	7172.4	6909.5	6862.9	7119.2	8304.0	7069.2
42.5°	7668.3	7778.2	8061.1	8397.2	8317.3	8004.5	7655.0	7601.8	7721.6	8986.3	7704.9
45°	8154.2	8247.4	8693.4	9209.3	9319.1	9042.9	8633.5	8590.2	8583.6	9984.8	8580.3
47.5°	8893.1	8993.0	9439.0	9958.2	10297.6	10340.9	9881.6	9835.0	9675.3	11332.7	9861.6
50°	9818.4	9981.5	10357.6	10963.3	11455.9	11918.5	11788.7	11652.3	11339.4	12900.3	11485.8
52.5°	10494.0	10693.7	11202.9	11978.4	12847.1	13582.6	14048.6	14048.6	13329.7	14621.1	13439.5
55°	10673.7	10793.6	11435.9	12557.5	14045.3	15905.8	16881.0	16807.7	15699.4	16431.6	15712.7
57.5°	9958.2	10114.6	10893.4	12068.3	14674.3	18079.1	19693.3	19710.0	18288.8	18535.1	17956.0
60°	7987.8	8037.8	8956.4	10527.3	14068.6	19829.8	23534.2	23597.4	21234.3	20408.9	19097.6
62.5°	5521.6	5681.3	6373.6	7751.5	11655.6	19633.4	27238.5	27551.4	23594.1	21397.4	19277.3
65°	3634.5	3731.0	4100.4	4939.1	8114.3	17017.4	28390.1	29355.3	25398.0	21454.0	18525.1
67.5°	2636.0	2652.6	2762.5	3195.1	4875.9	12238.0	26423.1	27784.3	26073.6	20981.4	16761.1
70°	2130.1	2143.4	2183.3	2459.6	3148.5	7658.3	21550.5	23683.9	24046.7	18741.5	13499.4
72.5°	1730.7	1747.3	1797.3	2056.9	2596.0	4260.2	15759.3	18358.7	19560.2	13865.5	8973.0
75°	1361.3	1374.6	1494.4	1750.7	2439.6	2925.5	10454.1	13000.2	13163.3	8104.3	4200.3
77.5°	931.9	955.2	1101.7	1484.4	2296.5	2559.4	6516.7	8327.3	7472.0	3171.8	1444.5
80°	592.4	625.7	712.2	1125.0	2030.2	2442.9	4053.8	4972.4	3271.7	1085.0	695.6
82.5°	349.5	382.8	469.3	728.9	1594.2	2266.5	2855.7	3111.9	1534.3	555.8	419.4
85°	193.0	216.3	282.9	439.3	935.2	2013.6	2286.5	2233.3	878.7	296.2	262.9
87.5°	63.2	73.2	103.2	176.4	386.1	948.6	1371.2	1288.0	456.0	136.5	103.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480371
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3	8134.3
2.5°	8127.6	8117.6	7967.9	7854.7	7661.7	7501.9	7438.7	7352.1	7348.8	7285.6	7268.9
5°	7931.3	7828.1	7598.4	7378.8	7035.9	6806.3	6596.6	6450.2	6390.3	6260.5	6230.5
7.5°	7678.3	7541.8	7189.0	6776.3	6373.6	6014.2	5688.0	5361.8	5178.8	5115.5	5045.6
10°	7415.4	7175.7	6653.2	6190.6	5628.1	5075.6	4563.0	4103.7	3854.1	3677.7	3601.2
12.5°	7205.7	6886.2	6220.5	5528.2	4786.0	4047.2	3451.4	2968.8	2685.9	2552.8	2492.9
15°	6969.4	6546.7	5747.9	4872.6	3947.3	3108.6	2526.2	2146.7	2033.6	1970.3	1960.3
17.5°	6719.8	6230.5	5235.4	4226.9	3128.6	2339.8	1963.7	1810.6	1760.7	1734.0	1720.7
20°	6486.8	5947.6	4709.5	3508.0	2449.6	1877.1	1700.7	1620.9	1617.5	1630.8	1627.5
22.5°	6157.3	5578.2	4190.3	2842.3	1957.0	1634.2	1521.0	1501.0	1521.0	1537.7	1544.3
25°	5970.9	5275.3	3611.2	2256.6	1617.5	1451.1	1414.5	1407.9	1437.8	1457.8	1454.5
27.5°	5777.9	4962.4	3072.0	1807.2	1417.8	1321.3	1314.7	1321.3	1351.3	1381.2	1377.9
30°	5628.1	4712.8	2566.1	1511.0	1264.7	1228.1	1221.5	1228.1	1244.8	1248.1	1248.1
32.5°	5504.9	4416.6	2136.7	1311.3	1171.5	1141.6	1148.3	1144.9	1148.3	1151.6	1154.9
35°	5431.7	4240.2	1783.9	1188.2	1095.0	1071.7	1068.4	1058.4	1061.7	1065.0	1061.7
37.5°	5588.2	4153.7	1504.4	1101.7	1041.7	1021.8	1015.1	1008.5	998.5	998.5	998.5
40°	5824.5	4107.1	1334.6	1045.1	1001.8	978.5	958.5	951.9	951.9	955.2	958.5
42.5°	6293.7	4183.6	1218.1	1001.8	951.9	925.3	905.3	908.6	918.6	928.6	921.9
45°	6972.7	4416.6	1164.9	968.5	921.9	885.3	872.0	868.7	878.7	895.3	908.6
47.5°	7861.4	4779.4	1144.9	938.6	902.0	852.0	835.4	845.4	858.7	882.0	872.0
50°	9315.8	5594.8	1161.6	911.9	872.0	835.4	815.4	805.4	815.4	832.1	838.7
52.5°	11216.2	7075.9	1224.8	898.6	852.0	822.1	788.8	772.2	782.1	795.5	795.5
55°	13489.5	9099.5	1401.2	882.0	818.8	802.1	765.5	732.2	738.9	738.9	735.5
57.5°	15493.1	10627.1	1610.9	858.7	798.8	775.5	728.9	689.0	682.3	685.6	689.0
60°	16391.7	11033.2	1710.7	852.0	798.8	742.2	679.0	639.0	629.0	622.4	622.4
62.5°	16235.3	10330.9	1507.7	822.1	818.8	715.6	632.4	589.1	575.8	562.5	565.8
65°	15290.0	9329.1	1188.2	782.1	822.1	698.9	585.8	542.5	519.2	502.6	499.2
67.5°	13562.7	7964.5	941.9	752.2	788.8	669.0	545.8	495.9	475.9	459.3	452.6
70°	10610.5	6243.8	818.8	712.2	708.9	595.8	499.2	456.0	426.0	406.0	406.0
72.5°	6879.5	3947.3	702.3	632.4	612.4	499.2	432.7	406.0	382.8	366.1	366.1
75°	3115.3	1833.9	565.8	529.2	499.2	399.4	366.1	352.8	332.8	316.2	316.2
77.5°	1118.3	782.1	422.7	416.0	372.8	309.5	296.2	286.2	272.9	256.3	256.3
80°	625.7	495.9	316.2	302.9	259.6	229.7	213.0	213.0	206.4	196.4	193.0
82.5°	396.1	322.8	233.0	203.0	169.7	153.1	146.4	143.1	139.8	126.5	123.1
85°	249.6	219.7	153.1	119.8	99.8	76.6	73.2	69.9	63.2	56.6	56.6
87.5°	113.2	126.5	59.9	36.6	26.6	16.6	10.0	3.3	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)