

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: P480295

Luminaire Tested: **IFLD-L-SA8D-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480295
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

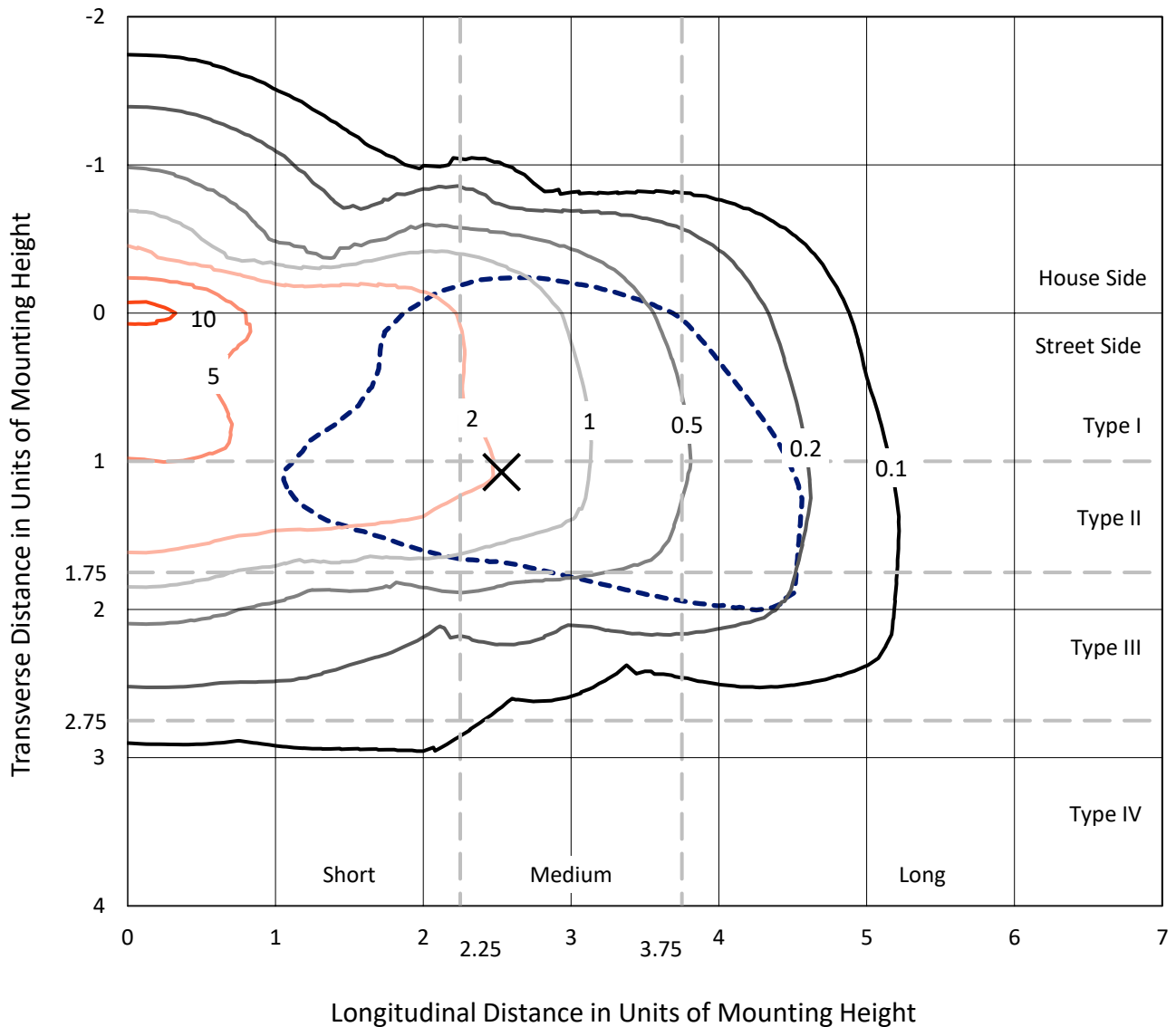
Lumens per Lamp: N/A
Luminaire Lumens: 44166.8 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

REPORT NUMBER: P480295
 CATALOG NUMBER: IFLD-L-SA8D-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

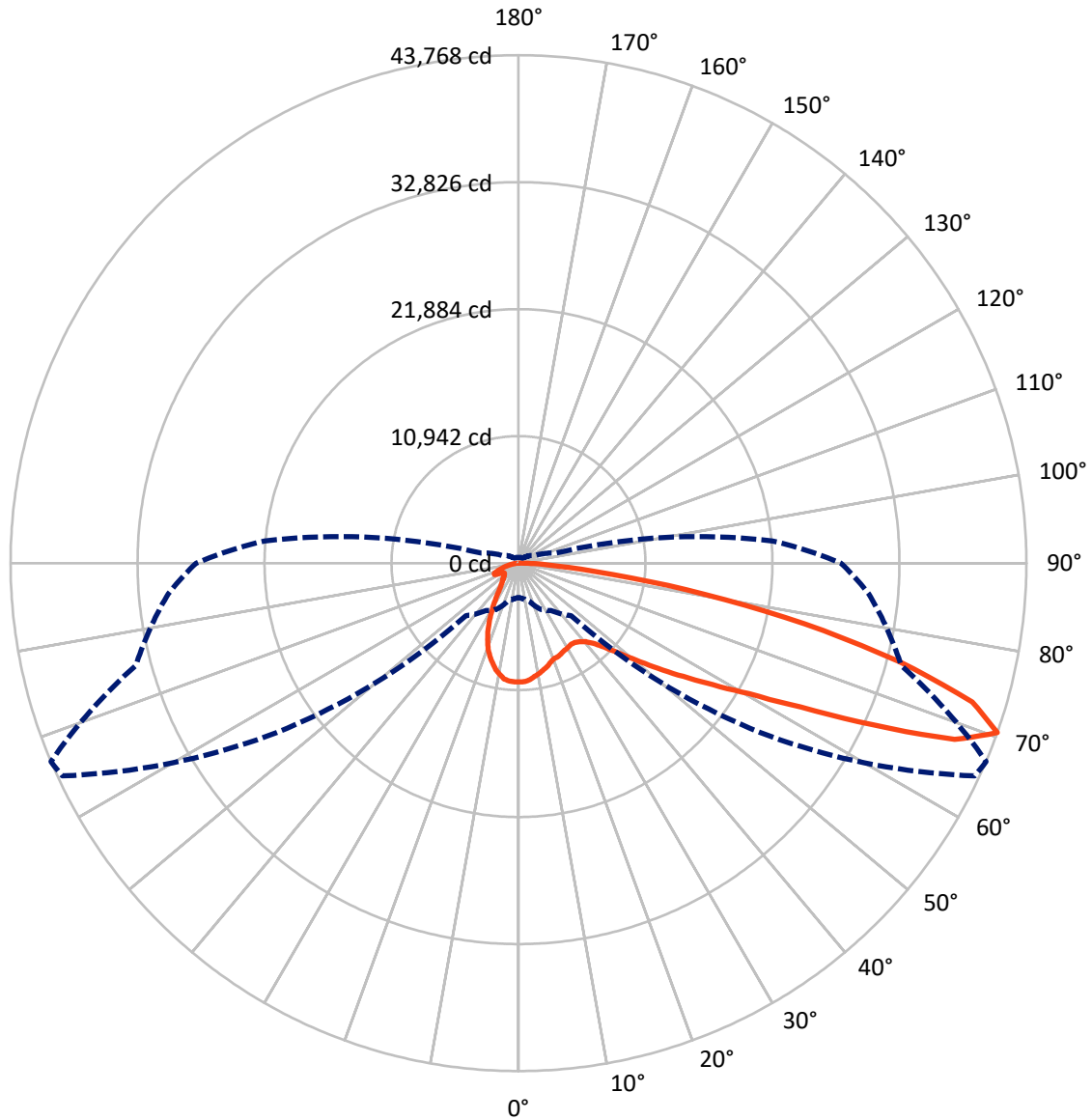
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P480295
CATALOG NUMBER: IFLD-L-SA8D-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P480295
 CATALOG NUMBER: IFLD-L-SA8D-830-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8601.9	0.0	8601.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	35564.9	0.0	35564.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	44166.8	0.0	44166.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.1	2.0
10°-20°	2136.6	4.8
20°-30°	2885.3	6.5
30°-40°	3860.8	8.7
40°-50°	5677.1	12.9
50°-60°	8849.3	20.0
60°-70°	10900.8	24.7
70°-80°	7702.4	17.4
80°-90°	1262.5	2.9
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°	44166.8	100.0
0°-180°	44166.8	100.0

Coefficient of Utilization

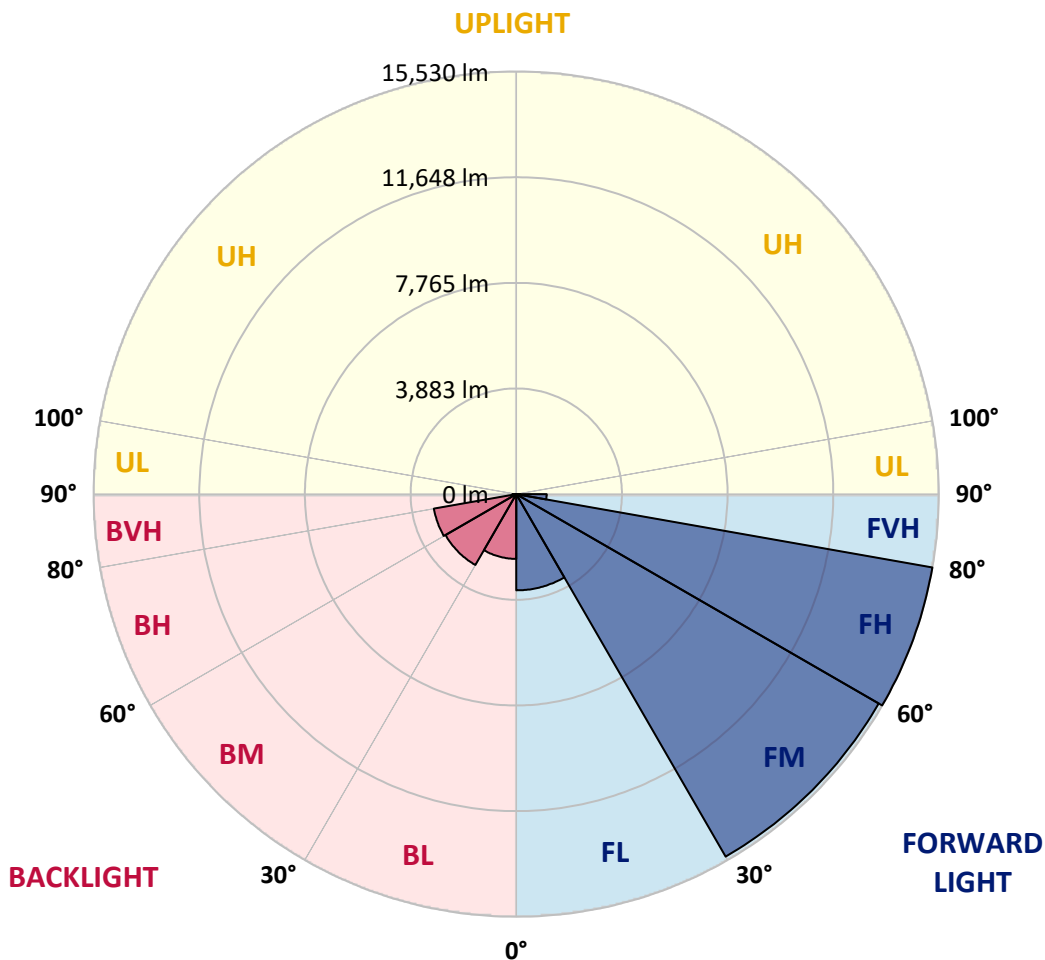


REPORT NUMBER: P480295
 CATALOG NUMBER: IFLD-L-SA8D-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3535.2	8.0			
FM (30°-60°)	15382.3	34.8			
FH (60°-80°)	15530.5	35.2			G5
FVH (80°-90°)	1116.8	2.5			G5
BL (0°-30°)	2378.7	5.4	B3/2500		
BM (30°-60°)	3004.8	6.8	B3/5000		
BH (60°-80°)	3072.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	145.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





REPORT NUMBER: P480295

CATALOG NUMBER: IFLD-L-SA8D-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5
2.5°	9520.3	9627.9	9667.0	9725.7	9877.3	9989.8	10058.2	10136.4	10229.4	10307.6	10356.5
5°	8855.3	8914.0	9006.9	9070.5	9261.2	9564.3	9769.7	10102.2	10092.4	10214.7	10400.5
7.5°	8209.9	8268.6	8312.6	8439.7	8713.5	8987.4	9363.9	9901.7	9862.6	10146.2	10434.7
10°	7808.9	7764.9	7779.6	7994.7	8209.9	8517.9	8992.2	9539.9	9681.7	10121.8	10532.5
12.5°	7432.4	7383.5	7500.9	7637.8	7901.8	8180.5	8747.8	9241.6	9456.8	10033.8	10576.5
15°	7197.7	7163.5	7310.2	7368.9	7681.8	8014.3	8415.3	9016.7	9251.4	9926.2	10508.1
17.5°	7065.7	7095.0	7148.8	7275.9	7476.4	7760.0	8200.1	8865.1	8967.8	9794.2	10493.4
20°	7090.1	7124.4	7129.3	7183.0	7320.0	7540.0	7989.8	8703.8	8772.2	9769.7	10532.5
22.5°	7285.7	7236.8	7256.4	7222.2	7261.3	7432.4	7828.5	8488.6	8752.6	9564.3	10449.4
25°	7579.1	7510.7	7500.9	7383.5	7310.2	7359.1	7799.1	8434.8	8606.0	9500.8	10444.5
27.5°	8097.4	7994.7	7994.7	7818.7	7520.4	7442.2	7716.0	8346.8	8498.4	9442.1	10332.0
30°	8596.2	8596.2	8601.1	8351.7	8019.2	7632.9	7750.3	8312.6	8410.4	9266.1	10180.5
32.5°	9202.5	9187.8	9163.4	9041.1	8527.7	7950.7	7916.5	8268.6	8317.5	9207.4	10136.4
35°	9794.2	9755.0	9945.7	9838.2	9315.0	8571.7	8087.6	8288.1	8395.7	9119.4	9999.5
37.5°	10239.1	10263.6	10659.7	10728.1	10278.3	9275.9	8571.7	8483.7	8586.4	9246.5	9999.5
40°	10816.1	10913.9	11285.5	11515.4	11241.5	10204.9	9339.4	8811.3	8884.7	9530.1	10214.7
42.5°	11574.0	11657.2	12131.5	12429.7	12351.5	11388.2	10097.3	9495.9	9437.2	10004.4	10537.4
45°	12576.4	12591.1	13070.3	13481.0	13642.4	12625.3	11300.2	10361.4	10312.5	10821.0	11129.1
47.5°	13769.5	13754.9	14053.1	14493.2	14928.4	14102.0	12684.0	11676.7	11500.7	11989.7	12111.9
50°	14923.5	14859.9	14928.4	15490.7	16326.9	15950.4	14366.1	13285.4	13109.4	13378.4	13588.6
52.5°	15559.2	15637.4	15451.6	16194.8	17813.4	18136.1	16595.8	15207.1	15055.5	15187.6	15554.3
55°	15114.2	15275.6	15153.3	15857.5	18463.7	20801.0	19480.8	17432.0	17236.4	17187.5	17788.9
57.5°	13221.9	13515.3	13539.7	14654.6	18238.8	22864.5	23539.2	20057.7	19764.4	19265.6	19886.6
60°	10151.1	10444.5	10669.4	11989.7	16312.2	24096.7	28243.2	23793.5	22825.3	21534.5	21906.1
62.5°	7114.6	7315.1	7540.0	8351.7	12576.4	23373.0	32311.5	29054.9	27270.1	23925.5	24390.1
65°	5183.1	5339.6	5569.4	6048.6	7725.8	19339.0	34198.9	35304.0	33612.1	26967.0	26908.3
67.5°	3902.0	3999.8	4303.0	5070.7	5354.3	11945.7	32243.0	41905.1	40536.0	30345.8	28932.6
70°	2953.4	3036.5	3320.1	4371.4	5002.2	6405.6	25436.5	43377.0	43768.1	34135.3	30292.0
72.5°	2034.1	2127.0	2444.9	3642.9	4762.6	5080.4	15965.0	39406.5	40888.1	35695.2	28834.8
75°	1246.9	1310.5	1496.3	2762.7	4728.4	4968.0	8786.9	32291.9	33861.5	32981.4	25226.2
77.5°	880.2	875.3	909.5	1618.5	4097.6	4997.3	5417.8	23661.5	25187.1	24306.9	17119.0
80°	640.6	645.4	679.7	968.2	2782.3	5080.4	4268.8	15847.7	16302.4	12674.2	6752.7
82.5°	386.3	405.8	489.0	655.2	1672.3	4586.6	3946.0	8806.4	8239.2	4068.3	1858.1
85°	205.4	205.4	288.5	415.6	889.9	3422.8	3799.3	4190.5	3510.8	1261.6	689.5
87.5°	48.9	48.9	83.1	166.3	357.0	1638.1	2591.6	1667.4	1334.9	425.4	283.6
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: P480295
 CATALOG NUMBER: IFLD-L-SA8D-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5	10224.5
2.5°	10336.9	10278.3	10351.6	10204.9	10087.6	10092.4	9911.5	9901.7	9877.3	9750.2	9794.2
5°	10454.3	10405.4	10322.3	10160.9	9901.7	9642.6	9486.1	9285.6	9202.5	9158.5	9178.1
7.5°	10566.7	10478.7	10239.1	10014.2	9613.2	9124.3	8840.7	8571.7	8229.4	8190.3	8121.9
10°	10596.1	10410.3	10102.2	9623.0	9090.0	8547.3	7901.8	7403.1	7139.0	6933.7	6855.4
12.5°	10552.1	10473.8	9882.2	9266.1	8459.3	7608.4	6855.4	6151.3	5662.3	5408.1	5339.6
15°	10547.2	10410.3	9637.7	8723.3	7691.6	6581.6	5510.7	4664.8	4151.4	3941.1	3941.1
17.5°	10552.1	10224.5	9349.2	8175.7	6787.0	5285.8	4107.4	3413.0	3129.4	3100.1	3124.5
20°	10454.3	10087.6	9046.0	7530.2	5652.5	3970.5	2982.7	2699.1	2699.1	2738.3	2752.9
22.5°	10366.3	9882.2	8566.8	6733.2	4498.6	2875.2	2425.3	2342.2	2435.1	2503.6	2532.9
25°	10244.0	9711.0	8077.9	5906.8	3422.8	2317.7	2107.5	2127.0	2215.1	2337.3	2327.5
27.5°	10068.0	9412.8	7496.0	4948.4	2547.6	1999.9	1946.1	1955.9	2048.8	2102.6	2092.8
30°	9867.5	9109.6	6958.1	3994.9	2019.5	1833.7	1828.8	1853.2	1867.9	1897.2	1892.3
32.5°	9613.2	8708.6	6386.0	3105.0	1819.0	1740.8	1721.2	1706.5	1721.2	1716.3	1701.6
35°	9432.3	8493.5	5804.1	2366.6	1706.5	1657.6	1643.0	1618.5	1598.9	1569.6	1564.7
37.5°	9383.4	8278.3	5192.9	1931.5	1618.5	1594.1	1545.2	1501.2	1476.7	1462.0	1452.3
40°	9354.1	8136.5	4596.4	1696.7	1545.2	1520.7	1462.0	1403.4	1378.9	1364.2	1369.1
42.5°	9456.8	8058.3	3990.0	1579.4	1481.6	1437.6	1374.0	1305.6	1300.7	1290.9	1305.6
45°	9818.6	8156.1	3427.7	1496.3	1418.0	1344.7	1261.6	1227.3	1222.4	1212.7	1222.4
47.5°	10640.1	8400.6	2948.5	1442.5	1349.6	1286.0	1198.0	1149.1	1144.2	1139.3	1139.3
50°	11774.5	9153.6	2547.6	1378.9	1305.6	1217.5	1134.4	1080.6	1070.9	1051.3	1051.3
52.5°	13554.4	10420.1	2308.0	1344.7	1227.3	1154.0	1066.0	1007.3	982.8	963.3	963.3
55°	15559.2	11989.7	2264.0	1286.0	1144.2	1075.7	997.5	938.8	914.4	889.9	880.2
57.5°	17842.7	14067.8	2576.9	1246.9	1085.5	997.5	909.5	855.7	836.1	811.7	801.9
60°	19969.7	16141.1	3550.0	1188.2	1031.7	924.2	836.1	782.4	757.9	733.5	733.5
62.5°	22429.3	18708.2	5197.8	1188.2	982.8	845.9	757.9	718.8	704.1	679.7	674.8
65°	25338.7	21363.3	6400.7	1261.6	968.2	777.5	684.6	645.4	630.8	616.1	611.2
67.5°	27553.7	22888.9	5505.9	1457.1	1031.7	718.8	611.2	586.8	577.0	562.3	552.5
70°	27788.4	21959.9	3320.1	1574.5	1095.3	660.1	547.7	523.2	523.2	508.5	498.8
72.5°	25681.0	19485.6	2234.6	1403.4	992.6	591.7	484.1	464.5	454.7	445.0	440.1
75°	21490.4	16527.3	1765.2	1119.8	762.8	489.0	420.5	401.0	386.3	381.4	371.6
77.5°	14434.5	10742.8	1305.6	875.3	562.3	396.1	352.1	332.5	317.8	312.9	298.3
80°	5545.0	4092.7	841.0	635.7	396.1	312.9	278.7	259.2	249.4	234.7	224.9
82.5°	1633.2	1325.1	469.4	391.2	254.3	215.1	200.5	185.8	171.1	156.5	151.6
85°	674.8	606.3	288.5	205.4	156.5	127.1	117.4	102.7	88.0	78.2	68.5
87.5°	312.9	259.2	132.0	78.2	53.8	29.3	14.7	4.9	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)