

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: P480255

Luminaire Tested: **IFLD-L-SA8C-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480255
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

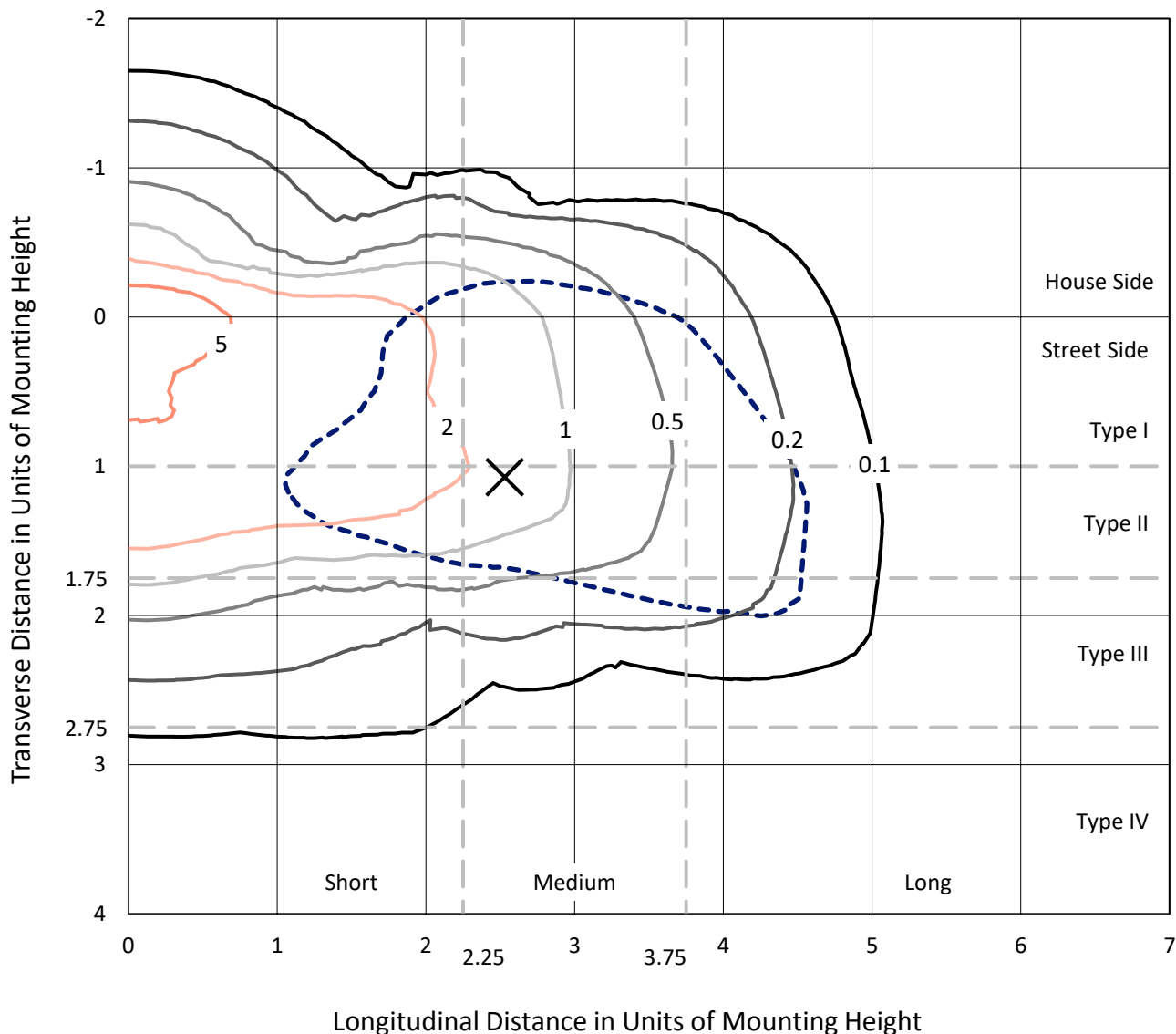
Lumens per Lamp: N/A
Luminaire Lumens: 37133.5 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

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Iso-Footcandle Lines of Horizontal Illumination

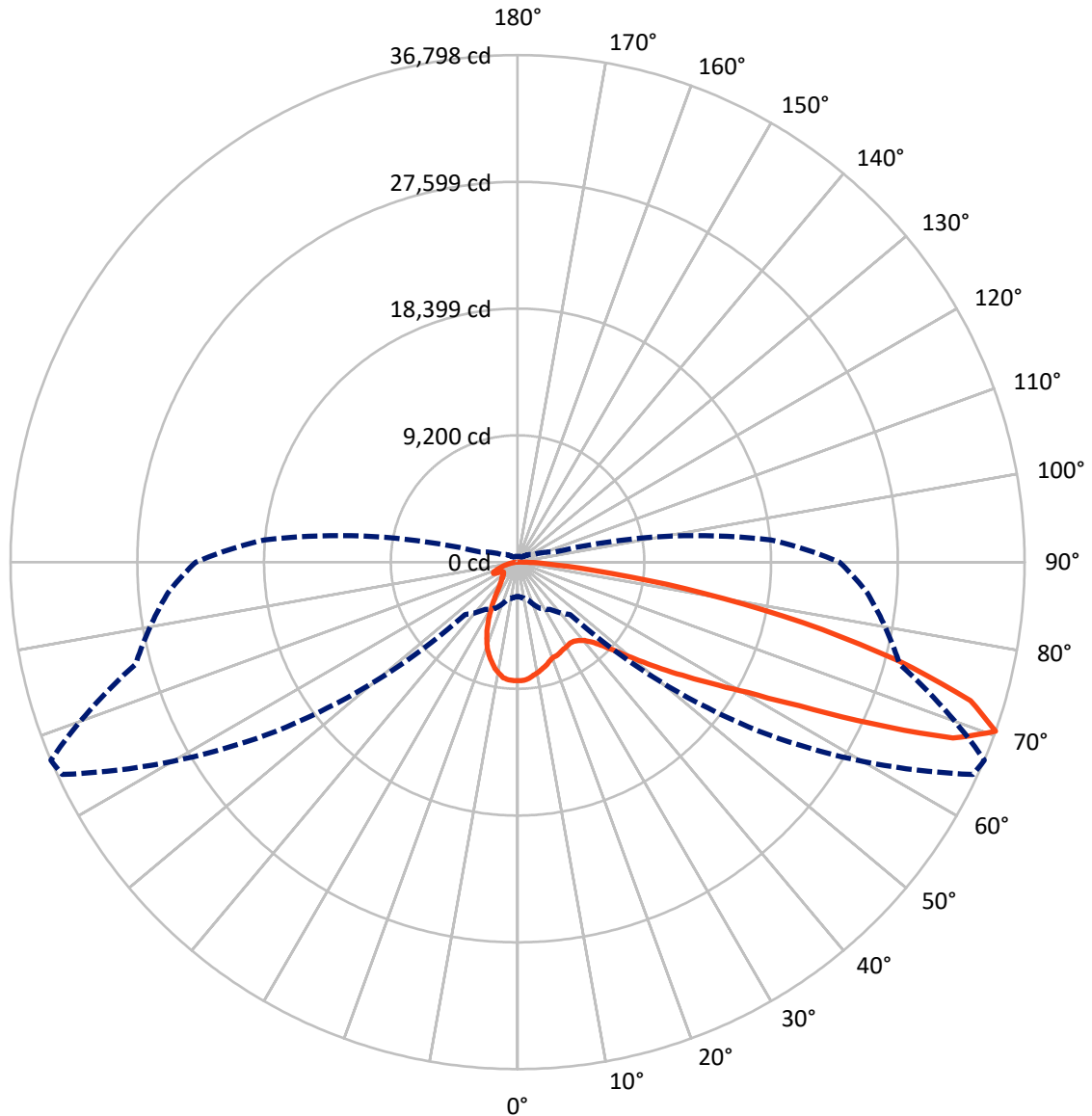
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7232.1	0.0	7232.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	29901.4	0.0	29901.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	37133.5	0.0	37133.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	750.0	2.0
10°-20°	1796.3	4.8
20°-30°	2425.8	6.5
30°-40°	3246.0	8.7
40°-50°	4773.1	12.9
50°-60°	7440.1	20.0
60°-70°	9164.9	24.7
70°-80°	6475.9	17.4
80°-90°	1061.4	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°	37133.5	100.0
0°-180°	37133.5	100.0

Coefficient of Utilization



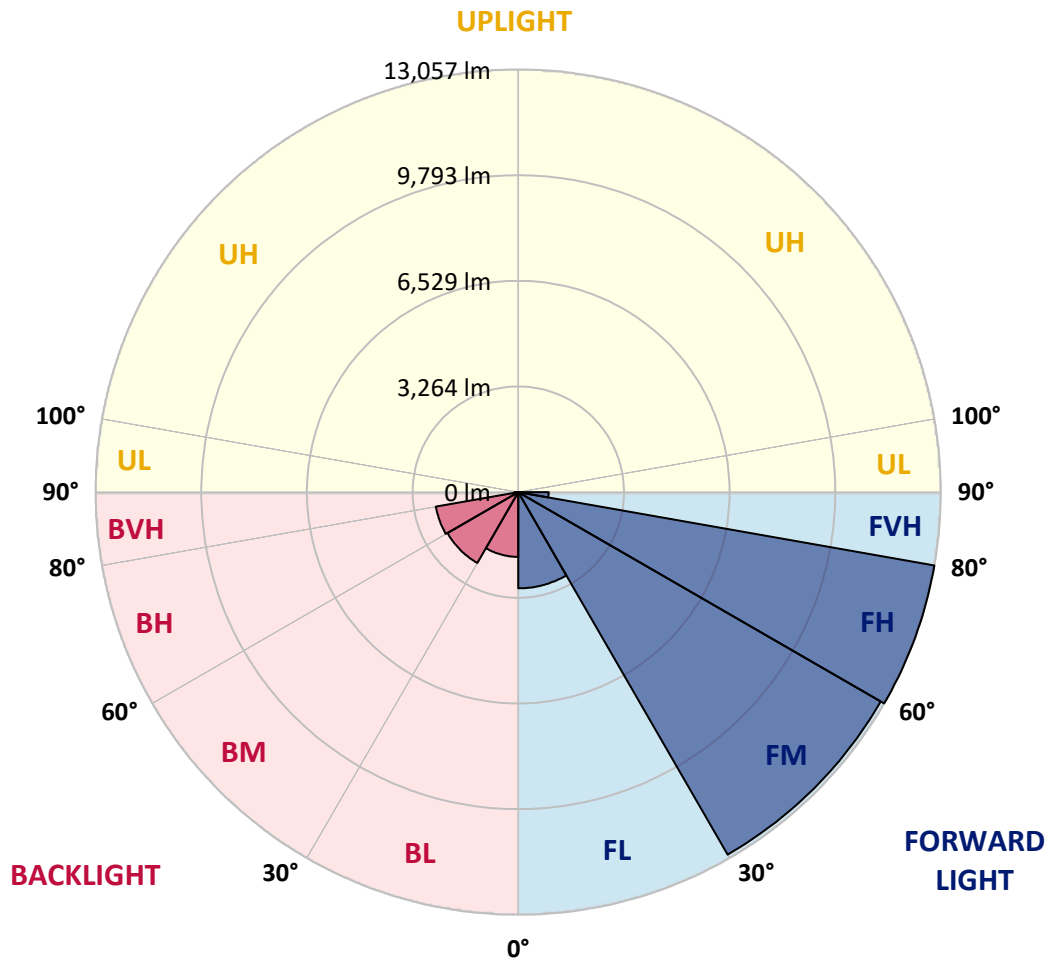
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.3	8.0			
FM (30°-60°)	12932.8	34.8			
FH (60°-80°)	13057.4	35.2			G5
FVH (80°-90°)	939.0	2.5			G5
BL (0°-30°)	1999.9	5.4	B3/2500		
BM (30°-60°)	2526.3	6.8	B3/5000		
BH (60°-80°)	2583.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	122.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3
2.5°	8004.3	8094.7	8127.6	8177.0	8304.4	8399.0	8456.5	8522.3	8600.4	8666.2	8707.3
5°	7445.2	7494.5	7572.6	7626.1	7786.4	8041.3	8214.0	8493.5	8485.3	8588.1	8744.3
7.5°	6902.5	6951.9	6988.9	7095.7	7326.0	7556.2	7872.7	8325.0	8292.1	8530.5	8773.1
10°	6565.4	6528.4	6540.7	6721.6	6902.5	7161.5	7560.3	8020.7	8140.0	8510.0	8855.3
12.5°	6248.9	6207.7	6306.4	6421.5	6643.5	6877.9	7354.7	7770.0	7950.8	8436.0	8892.3
15°	6051.5	6022.7	6146.1	6195.4	6458.5	6738.1	7075.2	7580.9	7778.2	8345.5	8834.7
17.5°	5940.5	5965.2	6010.4	6117.3	6285.9	6524.3	6894.3	7453.4	7539.7	8234.5	8822.4
20°	5961.1	5989.9	5994.0	6039.2	6154.3	6339.3	6717.5	7317.7	7375.3	8214.0	8855.3
22.5°	6125.5	6084.4	6100.9	6072.1	6105.0	6248.9	6581.9	7136.9	7358.9	8041.3	8785.4
25°	6372.2	6314.6	6306.4	6207.7	6146.1	6187.2	6557.2	7091.6	7235.5	7987.8	8781.3
27.5°	6808.0	6721.6	6721.6	6573.6	6322.9	6257.1	6487.3	7017.6	7145.1	7938.5	8686.7
30°	7227.3	7227.3	7231.4	7021.7	6742.2	6417.4	6516.1	6988.9	7071.1	7790.5	8559.3
32.5°	7737.1	7724.7	7704.2	7601.4	7169.7	6684.6	6655.9	6951.9	6993.0	7741.2	8522.3
35°	8234.5	8201.6	8362.0	8271.5	7831.6	7206.7	6799.7	6968.3	7058.7	7667.2	8407.2
37.5°	8608.6	8629.2	8962.2	9019.7	8641.5	7798.7	7206.7	7132.7	7219.1	7774.1	8407.2
40°	9093.7	9176.0	9488.4	9681.6	9451.4	8579.8	7852.2	7408.2	7469.9	8012.5	8588.1
42.5°	9731.0	9800.8	10199.6	10450.4	10384.6	9574.7	8489.4	7983.7	7934.4	8411.3	8859.4
45°	10573.7	10586.1	10988.9	11334.3	11469.9	10614.8	9500.7	8711.4	8670.3	9097.8	9356.8
47.5°	11576.8	11564.5	11815.3	12185.3	12551.2	11856.4	10664.2	9817.3	9669.3	10080.4	10183.2
50°	12547.0	12493.6	12551.2	13023.9	13726.9	13410.4	12078.4	11169.8	11021.8	11247.9	11424.7
52.5°	13081.5	13147.3	12991.0	13615.9	14976.7	15248.0	13953.0	12785.5	12658.0	12769.0	13077.4
55°	12707.4	12843.0	12740.3	13332.3	15523.5	17488.6	16378.6	14656.0	14491.6	14450.5	14956.1
57.5°	11116.4	11363.1	11383.6	12320.9	15334.4	19223.5	19790.8	16863.7	16617.0	16197.7	16719.8
60°	8534.6	8781.3	8970.4	10080.4	13714.6	20259.5	23745.7	20004.6	19190.6	18105.2	18417.7
62.5°	5981.6	6150.2	6339.3	7021.7	10573.7	19651.0	27166.1	24428.1	22927.6	20115.6	20506.1
65°	4357.8	4489.3	4682.5	5085.4	6495.5	16259.4	28753.0	29682.1	28259.6	22672.7	22623.3
67.5°	3280.7	3362.9	3617.8	4263.2	4501.6	10043.4	27108.5	35232.0	34080.9	25513.4	24325.3
70°	2483.1	2553.0	2791.4	3675.3	4205.6	5385.5	21385.9	36469.5	36798.4	28699.5	25468.2
72.5°	1710.2	1788.3	2055.5	3062.8	4004.2	4271.4	13422.7	33131.3	34376.9	30011.0	24243.1
75°	1048.3	1101.8	1258.0	2322.8	3975.4	4176.9	7387.6	27149.6	28469.3	27729.3	21209.1
77.5°	740.0	735.9	764.7	1360.8	3445.1	4201.5	4555.1	19893.6	21176.2	20436.2	14392.9
80°	538.6	542.7	571.4	814.0	2339.2	4271.4	3589.0	13324.0	13706.4	10655.9	5677.4
82.5°	324.8	341.2	411.1	550.9	1406.0	3856.2	3317.7	7404.1	6927.2	3420.4	1562.2
85°	172.7	172.7	242.6	349.4	748.2	2877.8	3194.3	3523.2	2951.8	1060.7	579.7
87.5°	41.1	41.1	69.9	139.8	300.1	1377.2	2178.9	1401.9	1122.3	357.7	238.4
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°	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3	8596.3
2.5°	8690.8	8641.5	8703.2	8579.8	8481.2	8485.3	8333.2	8325.0	8304.4	8197.5	8234.5
5°	8789.5	8748.4	8678.5	8542.8	8325.0	8107.1	7975.5	7807.0	7737.1	7700.1	7716.5
7.5°	8884.1	8810.1	8608.6	8419.5	8082.4	7671.3	7432.9	7206.7	6919.0	6886.1	6828.5
10°	8908.7	8752.5	8493.5	8090.6	7642.5	7186.2	6643.5	6224.2	6002.2	5829.5	5763.7
12.5°	8871.7	8806.0	8308.5	7790.5	7112.2	6396.9	5763.7	5171.8	4760.6	4546.9	4489.3
15°	8867.6	8752.5	8103.0	7334.2	6466.7	5533.5	4633.2	3922.0	3490.3	3313.5	3313.5
17.5°	8871.7	8596.3	7860.4	6873.7	5706.2	4444.1	3453.3	2869.5	2631.1	2606.4	2627.0
20°	8789.5	8481.2	7605.5	6331.1	4752.4	3338.2	2507.8	2269.3	2269.3	2302.2	2314.5
22.5°	8715.5	8308.5	7202.6	5661.0	3782.2	2417.3	2039.1	1969.2	2047.3	2104.9	2129.5
25°	8612.7	8164.6	6791.5	4966.2	2877.8	1948.7	1771.9	1788.3	1862.3	1965.1	1956.9
27.5°	8464.7	7913.8	6302.3	4160.4	2141.9	1681.4	1636.2	1644.4	1722.5	1767.8	1759.5
30°	8296.2	7659.0	5850.1	3358.8	1697.9	1541.7	1537.5	1558.1	1570.4	1595.1	1591.0
32.5°	8082.4	7321.9	5369.1	2610.5	1529.3	1463.5	1447.1	1434.8	1447.1	1443.0	1430.7
35°	7930.3	7141.0	4879.9	1989.8	1434.8	1393.7	1381.3	1360.8	1344.3	1319.7	1315.5
37.5°	7889.2	6960.1	4366.0	1623.9	1360.8	1340.2	1299.1	1262.1	1241.5	1229.2	1221.0
40°	7864.5	6840.9	3864.4	1426.5	1299.1	1278.5	1229.2	1179.9	1159.3	1147.0	1151.1
42.5°	7950.8	6775.1	3354.6	1327.9	1245.7	1208.7	1155.2	1097.7	1093.6	1085.3	1097.7
45°	8255.1	6857.3	2881.9	1258.0	1192.2	1130.5	1060.7	1031.9	1027.8	1019.6	1027.8
47.5°	8945.7	7062.9	2479.0	1212.8	1134.7	1081.2	1007.2	966.1	962.0	957.9	957.9
50°	9899.5	7696.0	2141.9	1159.3	1097.7	1023.7	953.8	908.6	900.3	883.9	883.9
52.5°	11395.9	8760.7	1940.4	1130.5	1031.9	970.2	896.2	846.9	826.3	809.9	809.9
55°	13081.5	10080.4	1903.4	1081.2	962.0	904.4	838.7	789.3	768.8	748.2	740.0
57.5°	15001.4	11827.6	2166.5	1048.3	912.7	838.7	764.7	719.4	703.0	682.4	674.2
60°	16789.7	13570.7	2984.7	999.0	867.4	777.0	703.0	657.8	637.2	616.7	616.7
62.5°	18857.6	15729.0	4370.1	999.0	826.3	711.2	637.2	604.3	592.0	571.4	567.3
65°	21303.7	17961.4	5381.4	1060.7	814.0	653.7	575.6	542.7	530.3	518.0	513.9
67.5°	23166.0	19244.0	4629.1	1225.1	867.4	604.3	513.9	493.3	485.1	472.8	464.6
70°	23363.3	18462.9	2791.4	1323.8	920.9	555.0	460.4	439.9	439.9	427.6	419.3
72.5°	21591.4	16382.7	1878.8	1179.9	834.6	497.4	407.0	390.6	382.3	374.1	370.0
75°	18068.2	13895.5	1484.1	941.4	641.3	411.1	353.6	337.1	324.8	320.7	312.4
77.5°	12135.9	9032.1	1097.7	735.9	472.8	333.0	296.0	279.6	267.2	263.1	250.8
80°	4662.0	3441.0	707.1	534.4	333.0	263.1	234.3	217.9	209.7	197.3	189.1
82.5°	1373.1	1114.1	394.7	328.9	213.8	180.9	168.6	156.2	143.9	131.6	127.4
85°	567.3	509.8	242.6	172.7	131.6	106.9	98.7	86.3	74.0	65.8	57.6
87.5°	263.1	217.9	111.0	65.8	45.2	24.7	12.3	4.1	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)