

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: P480017

Luminaire Tested: **IFLD-L-SA7D-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480017
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

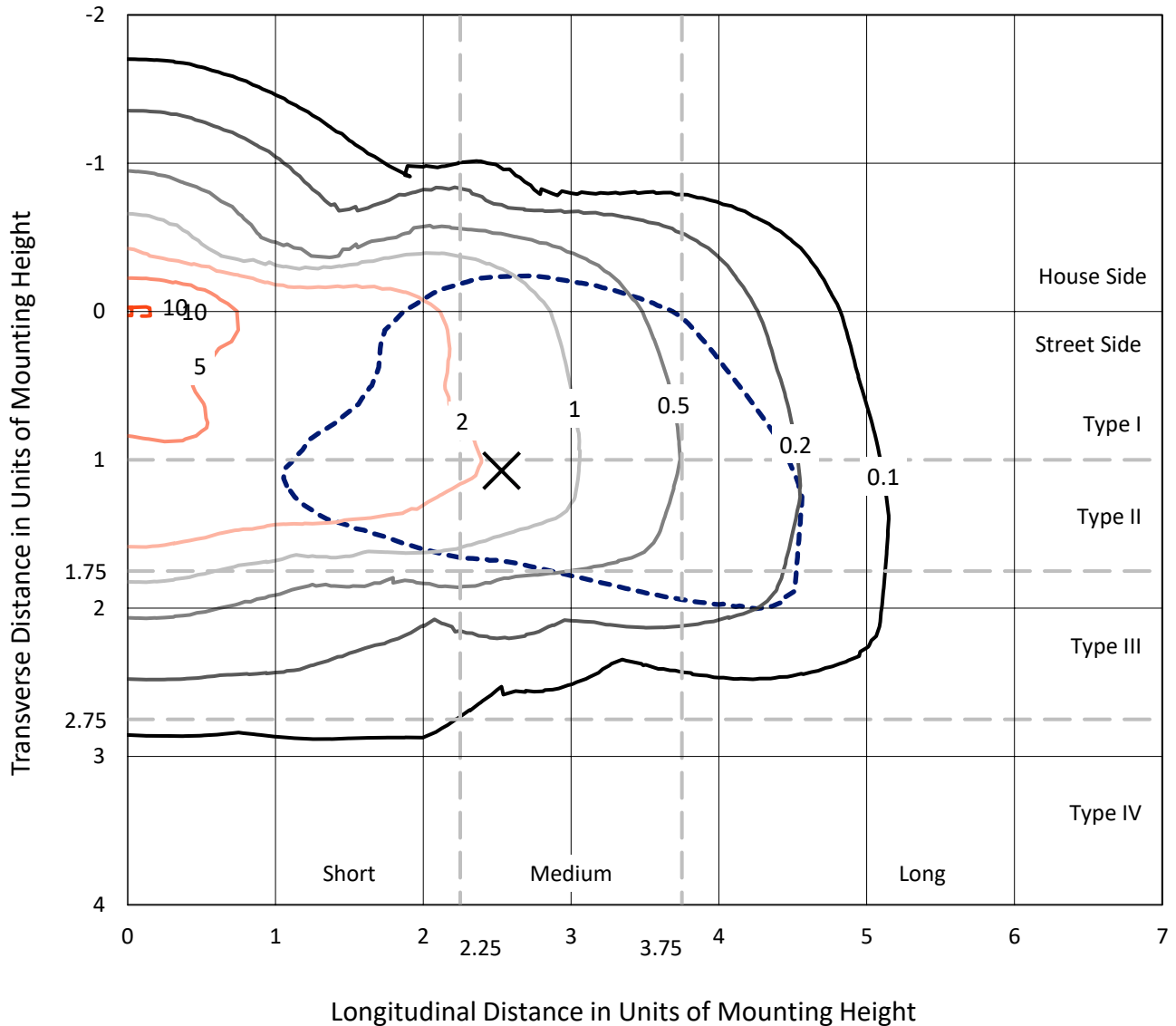
Lumens per Lamp: N/A
Luminaire Lumens: 40673.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

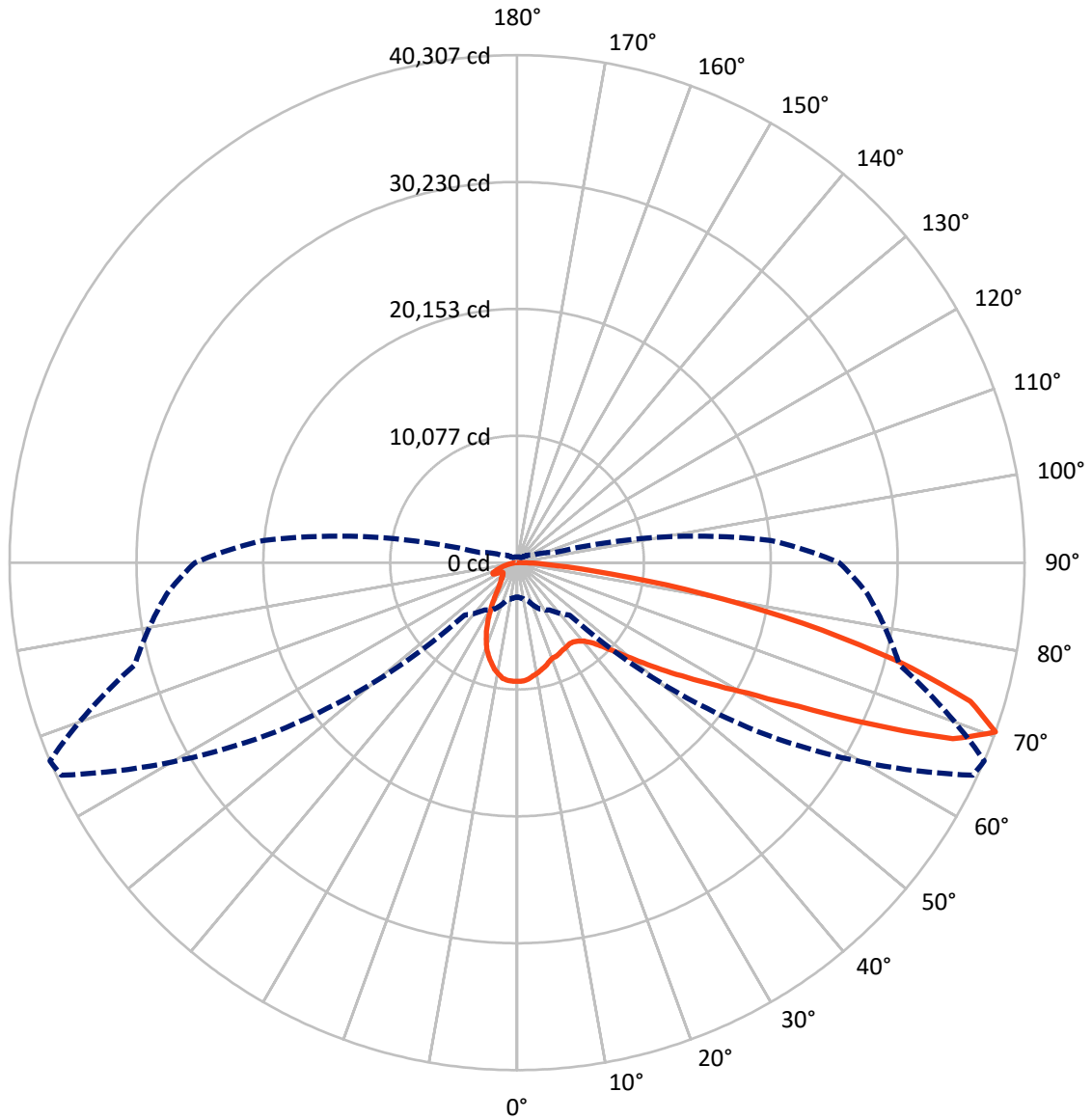
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 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	7921.6	0.0	7921.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	32752.3	0.0	32752.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	40673.9	0.0	40673.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.5	2.0
10°-20°	1967.6	4.8
20°-30°	2657.1	6.5
30°-40°	3555.4	8.7
40°-50°	5228.2	12.9
50°-60°	8149.4	20.0
60°-70°	10038.7	24.7
70°-80°	7093.3	17.4
80°-90°	1162.6	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°	40673.9	100.0
0°-180°	40673.9	100.0

Coefficient of Utilization

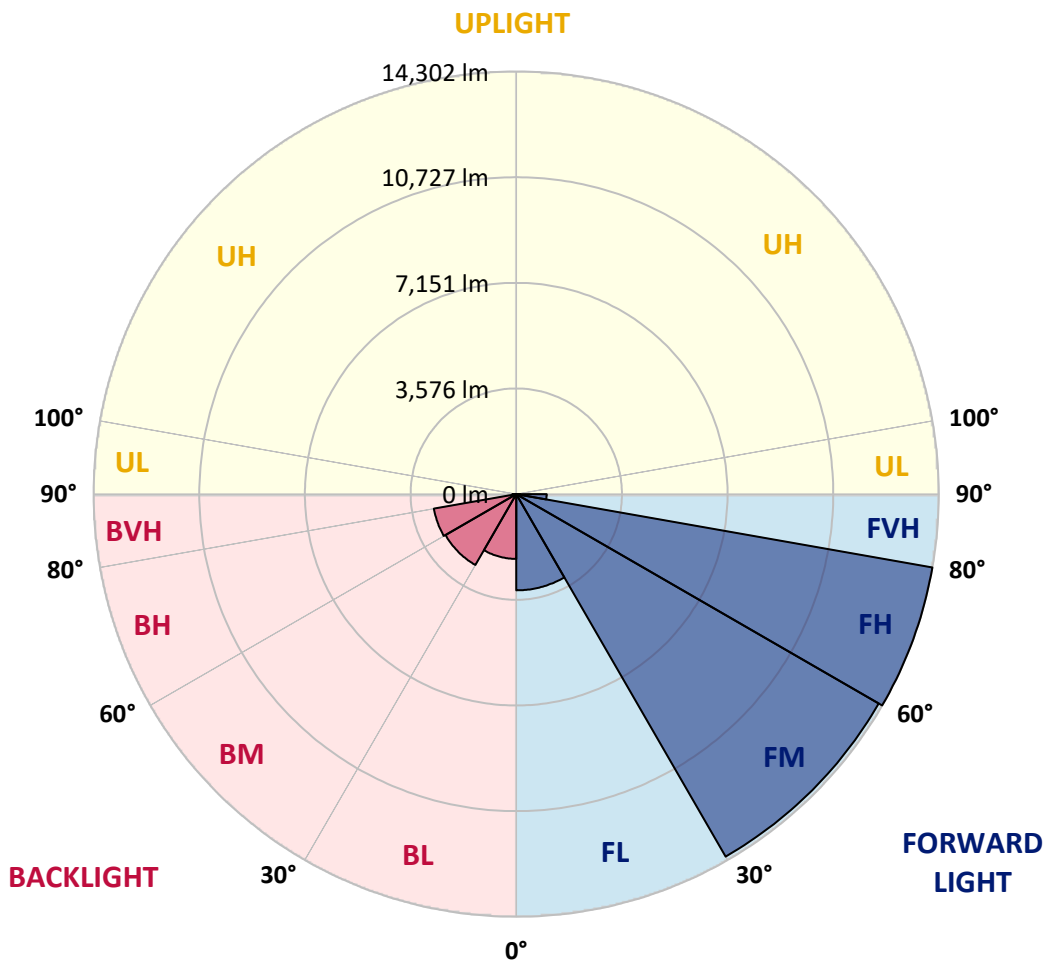


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3255.6	8.0			
FM (30°-60°)	14165.8	34.8			
FH (60°-80°)	14302.3	35.2			G5
FVH (80°-90°)	1028.5	2.5			G5
BL (0°-30°)	2190.6	5.4	B3/2500		
BM (30°-60°)	2767.2	6.8	B3/5000		
BH (60°-80°)	2829.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	134.1	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°	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9
2.5°	8767.4	8866.5	8902.5	8956.6	9096.2	9199.7	9262.8	9334.8	9420.4	9492.4	9537.5
5°	8155.0	8209.1	8294.6	8353.2	8528.8	8808.0	8997.1	9303.3	9294.3	9406.9	9578.0
7.5°	7560.6	7614.7	7655.2	7772.3	8024.4	8276.6	8623.3	9118.7	9082.7	9343.8	9609.5
10°	7191.4	7150.8	7164.4	7362.5	7560.6	7844.3	8281.1	8785.5	8916.0	9321.3	9699.6
12.5°	6844.6	6799.6	6907.7	7033.8	7276.9	7533.6	8056.0	8510.8	8708.9	9240.3	9740.1
15°	6628.5	6597.0	6732.1	6786.1	7074.3	7380.5	7749.8	8303.6	8519.8	9141.2	9677.1
17.5°	6506.9	6533.9	6583.5	6700.5	6885.2	7146.3	7551.6	8164.0	8258.6	9019.6	9663.6
20°	6529.4	6560.9	6565.5	6615.0	6741.1	6943.7	7358.0	8015.4	8078.5	8997.1	9699.6
22.5°	6709.5	6664.5	6682.5	6651.0	6687.0	6844.6	7209.4	7817.3	8060.5	8808.0	9623.0
25°	6979.7	6916.7	6907.7	6799.6	6732.1	6777.1	7182.4	7767.8	7925.4	8749.4	9618.5
27.5°	7457.1	7362.5	7362.5	7200.4	6925.7	6853.6	7105.8	7686.7	7826.3	8695.4	9514.9
30°	7916.4	7916.4	7920.9	7691.2	7385.0	7029.3	7137.3	7655.2	7745.3	8533.3	9375.4
32.5°	8474.7	8461.2	8438.7	8326.1	7853.3	7322.0	7290.4	7614.7	7659.7	8479.2	9334.8
35°	9019.6	8983.6	9159.2	9060.1	8578.3	7893.9	7448.0	7632.7	7731.7	8398.2	9208.7
37.5°	9429.4	9451.9	9816.7	9879.7	9465.4	8542.3	7893.9	7812.8	7907.4	8515.3	9208.7
40°	9960.8	10050.8	10393.0	10604.7	10352.5	9397.9	8600.8	8114.5	8182.0	8776.4	9406.9
42.5°	10658.7	10735.3	11172.1	11446.8	11374.7	10487.6	9298.8	8744.9	8690.9	9213.2	9704.1
45°	11581.9	11595.4	12036.7	12414.9	12563.5	11626.9	10406.6	9542.0	9496.9	9965.3	10248.9
47.5°	12680.6	12667.1	12941.8	13347.0	13747.8	12986.8	11680.9	10753.3	10591.2	11041.5	11154.1
50°	13743.3	13684.8	13747.8	14265.7	15035.7	14689.0	13230.0	12234.8	12072.7	12320.4	12514.0
52.5°	14328.7	14400.8	14229.6	14914.1	16404.6	16701.8	15283.4	14004.5	13864.9	13986.5	14324.2
55°	13918.9	14067.5	13955.0	14603.4	17003.5	19156.0	17940.2	16053.4	15873.3	15828.2	16382.1
57.5°	12176.3	12446.4	12469.0	13495.6	16796.4	21056.3	21677.7	18471.5	18201.3	17742.0	18313.9
60°	9348.3	9618.5	9825.7	11041.5	15022.2	22191.0	26009.6	21911.9	21020.2	19831.4	20173.7
62.5°	6551.9	6736.6	6943.7	7691.2	11581.9	21524.6	29756.2	26757.1	25113.5	22033.4	22461.2
65°	4773.2	4917.3	5129.0	5570.3	7114.8	17809.6	31494.3	32512.0	30954.0	24834.3	24780.3
67.5°	3593.4	3683.5	3962.7	4669.7	4930.8	11001.0	29693.1	38591.2	37330.3	27945.9	26644.6
70°	2719.8	2796.4	3057.6	4025.7	4606.6	5899.0	23424.9	39946.6	40306.8	31435.8	27896.4
72.5°	1873.3	1958.8	2251.5	3354.8	4386.0	4678.7	14702.5	36290.1	37654.5	32872.3	26554.5
75°	1148.3	1206.8	1377.9	2544.2	4354.5	4575.1	8092.0	29738.2	31183.6	30373.1	23231.2
77.5°	810.5	806.0	837.6	1490.5	3773.6	4602.1	4989.4	21790.3	23195.2	22384.7	15765.2
80°	589.9	594.4	625.9	891.6	2562.2	4678.7	3931.2	14594.4	15013.2	11671.9	6218.7
82.5°	355.7	373.8	450.3	603.4	1540.0	4223.9	3634.0	8110.0	7587.6	3746.5	1711.2
85°	189.1	189.1	265.7	382.8	819.6	3152.1	3498.9	3859.1	3233.2	1161.8	634.9
87.5°	45.0	45.0	76.6	153.1	328.7	1508.5	2386.6	1535.5	1229.3	391.8	261.2
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°	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9	9415.9
2.5°	9519.5	9465.4	9533.0	9397.9	9289.8	9294.3	9127.7	9118.7	9096.2	8979.1	9019.6
5°	9627.5	9582.5	9505.9	9357.3	9118.7	8880.0	8735.9	8551.3	8474.7	8434.2	8452.2
7.5°	9731.1	9650.0	9429.4	9222.3	8853.0	8402.7	8141.5	7893.9	7578.6	7542.6	7479.6
10°	9758.1	9587.0	9303.3	8862.0	8371.2	7871.3	7276.9	6817.6	6574.5	6385.3	6313.3
12.5°	9717.6	9645.5	9100.7	8533.3	7790.3	7006.7	6313.3	5664.8	5214.5	4980.4	4917.3
15°	9713.1	9587.0	8875.5	8033.4	7083.3	6061.1	5074.9	4295.9	3823.1	3629.5	3629.5
17.5°	9717.6	9415.9	8609.8	7529.1	6250.2	4867.8	3782.6	3143.1	2882.0	2854.9	2877.5
20°	9627.5	9289.8	8330.6	6934.7	5205.5	3656.5	2746.9	2485.7	2485.7	2521.7	2535.2
22.5°	9546.5	9100.7	7889.3	6200.7	4142.8	2647.8	2233.5	2157.0	2242.5	2305.6	2332.6
25°	9433.9	8943.1	7439.0	5439.7	3152.1	2134.4	1940.8	1958.8	2039.9	2152.5	2143.5
27.5°	9271.8	8668.4	6903.2	4557.1	2346.1	1841.7	1792.2	1801.2	1886.8	1936.3	1927.3
30°	9087.2	8389.2	6407.8	3679.0	1859.8	1688.6	1684.1	1706.7	1720.2	1747.2	1742.7
32.5°	8853.0	8019.9	5881.0	2859.4	1675.1	1603.1	1585.1	1571.6	1585.1	1580.6	1567.1
35°	8686.4	7821.8	5345.1	2179.5	1571.6	1526.5	1513.0	1490.5	1472.5	1445.5	1441.0
37.5°	8641.4	7623.7	4782.2	1778.7	1490.5	1468.0	1423.0	1382.4	1359.9	1346.4	1337.4
40°	8614.3	7493.1	4232.9	1562.6	1423.0	1400.4	1346.4	1292.4	1269.9	1256.4	1260.9
42.5°	8708.9	7421.0	3674.5	1454.5	1364.4	1323.9	1265.4	1202.3	1197.8	1188.8	1202.3
45°	9042.1	7511.1	3156.6	1377.9	1305.9	1238.3	1161.8	1130.3	1125.8	1116.8	1125.8
47.5°	9798.6	7736.2	2715.3	1328.4	1242.8	1184.3	1103.2	1058.2	1053.7	1049.2	1049.2
50°	10843.4	8429.7	2346.1	1269.9	1202.3	1121.3	1044.7	995.2	986.2	968.2	968.2
52.5°	12482.5	9596.0	2125.4	1238.3	1130.3	1062.7	981.7	927.6	905.1	887.1	887.1
55°	14328.7	11041.5	2084.9	1184.3	1053.7	990.7	918.6	864.6	842.1	819.6	810.5
57.5°	16431.6	12955.3	2373.1	1148.3	999.7	918.6	837.6	788.0	770.0	747.5	738.5
60°	18390.5	14864.6	3269.2	1094.2	950.1	851.1	770.0	720.5	698.0	675.5	675.5
62.5°	20655.5	17228.7	4786.7	1094.2	905.1	779.0	698.0	661.9	648.4	625.9	621.4
65°	23334.8	19673.8	5894.5	1161.8	891.6	716.0	630.4	594.4	580.9	567.4	562.9
67.5°	25374.7	21078.8	5070.4	1341.9	950.1	661.9	562.9	540.4	531.4	517.9	508.8
70°	25590.8	20223.2	3057.6	1450.0	1008.7	607.9	504.3	481.8	481.8	468.3	459.3
72.5°	23650.0	17944.7	2057.9	1292.4	914.1	544.9	445.8	427.8	418.8	409.8	405.3
75°	19790.9	15220.3	1625.6	1031.2	702.5	450.3	387.3	369.3	355.7	351.2	342.2
77.5°	13293.0	9893.2	1202.3	806.0	517.9	364.7	324.2	306.2	292.7	288.2	274.7
80°	5106.5	3769.1	774.5	585.4	364.7	288.2	256.7	238.7	229.7	216.1	207.1
82.5°	1504.0	1220.3	432.3	360.2	234.2	198.1	184.6	171.1	157.6	144.1	139.6
85°	621.4	558.4	265.7	189.1	144.1	117.1	108.1	94.6	81.1	72.0	63.0
87.5°	288.2	238.7	121.6	72.0	49.5	27.0	13.5	4.5	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)