

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: P480170

Luminaire Tested: **IFLD-L-SA7A-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480170
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

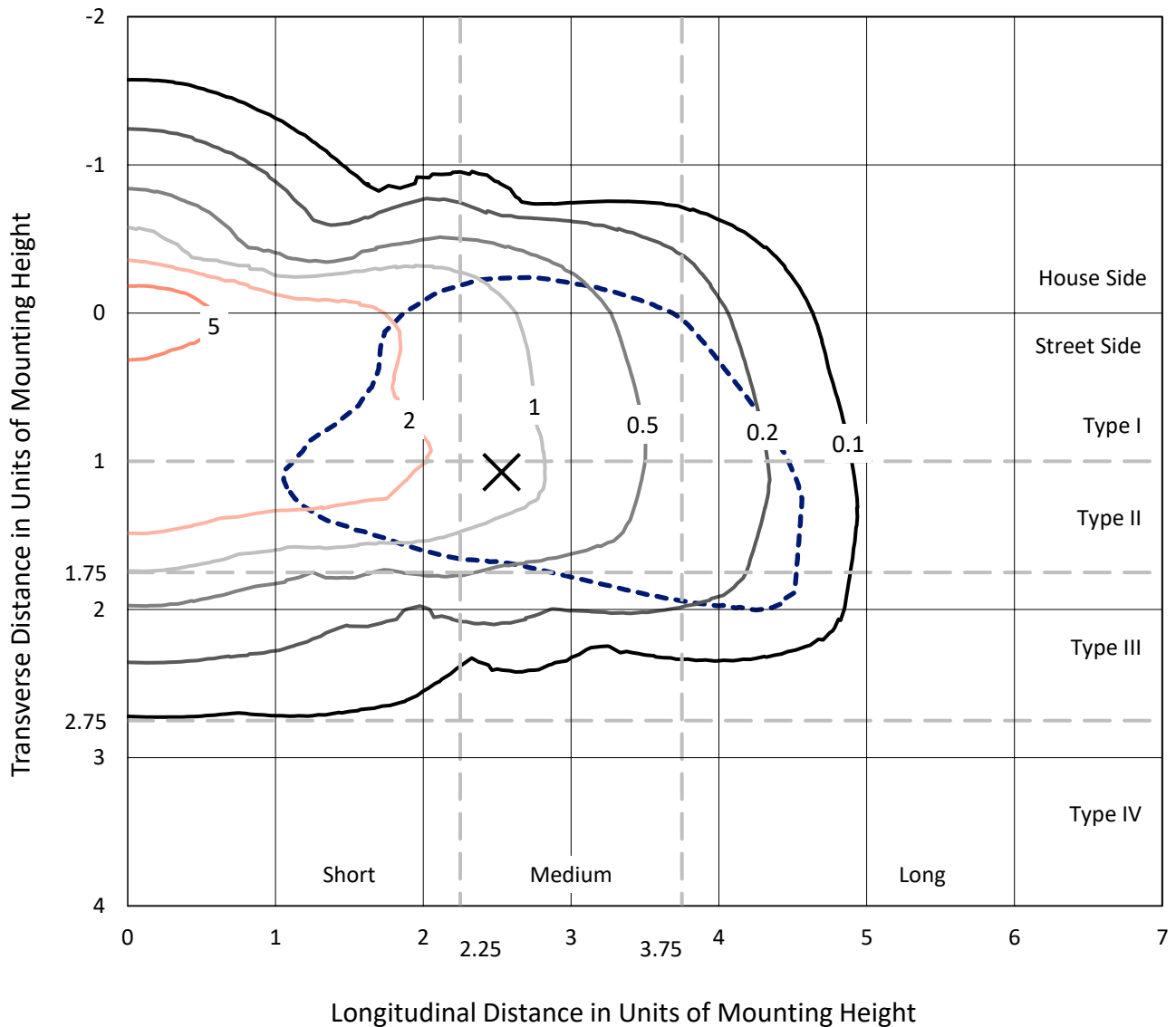
Lumens per Lamp: N/A
Luminaire Lumens: 31923.1 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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

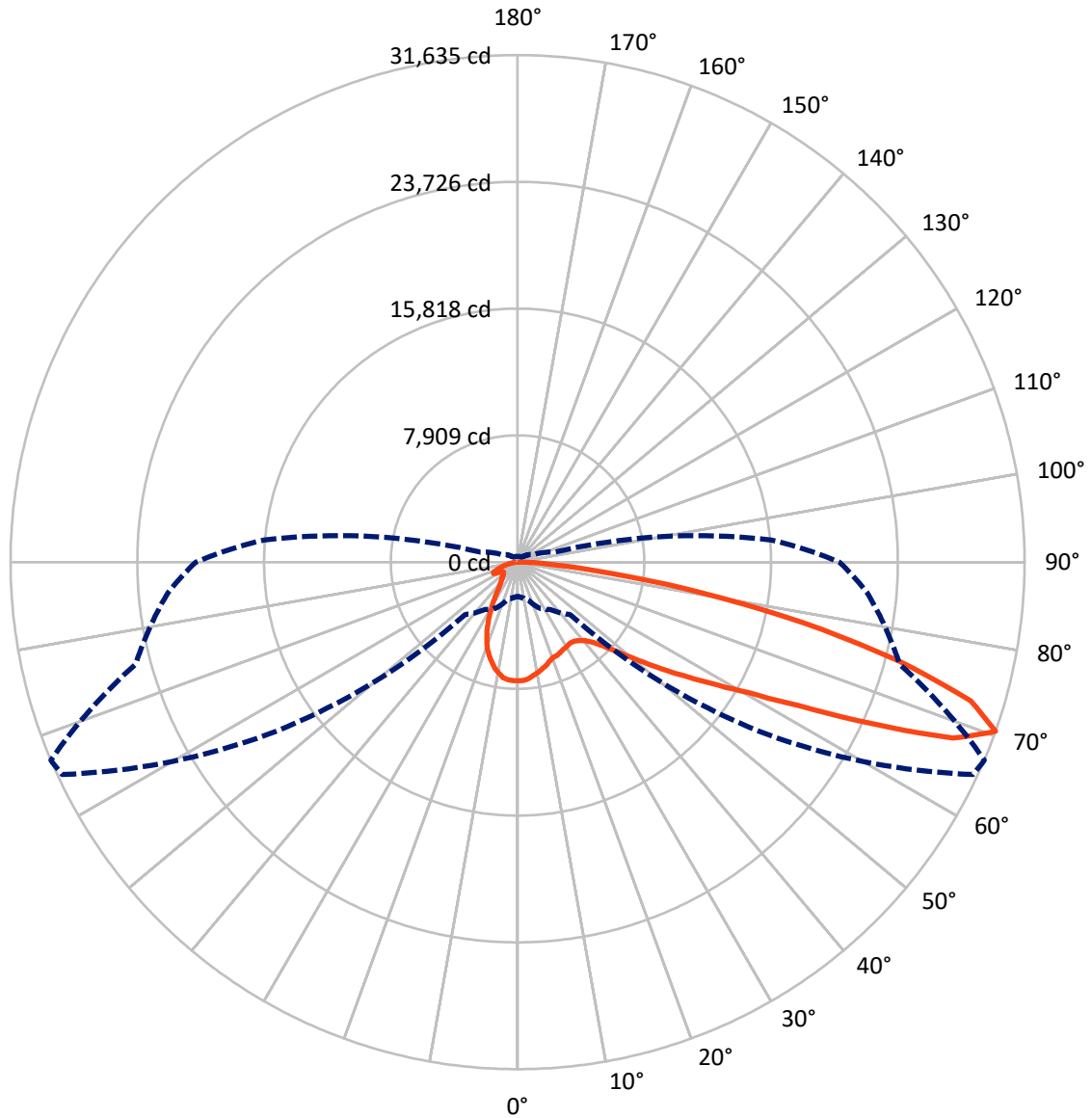
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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	6217.3	0.0	6217.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25705.8	0.0	25705.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	31923.1	0.0	31923.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.8	2.0
10°-20°	1544.3	4.8
20°-30°	2085.4	6.5
30°-40°	2790.5	8.7
40°-50°	4103.4	12.9
50°-60°	6396.1	20.0
60°-70°	7878.9	24.7
70°-80°	5567.2	17.4
80°-90°	912.5	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°	31923.1	100.0
0°-180°	31923.1	100.0

Coefficient of Utilization

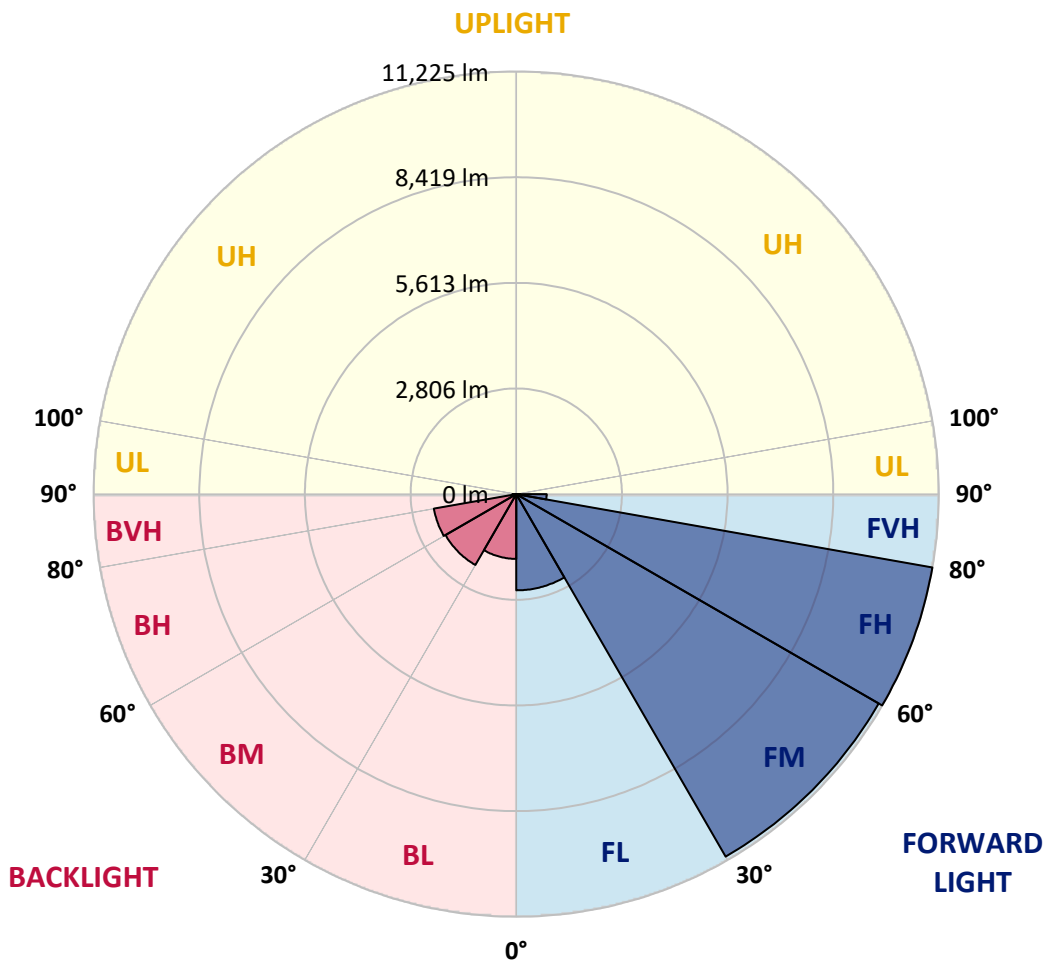


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2555.2	8.0			
FM (30°-60°)	11118.1	34.8			
FH (60°-80°)	11225.2	35.2			G4/12000
FVH (80°-90°)	807.2	2.5			G5
BL (0°-30°)	1719.3	5.4	B3/2500		
BM (30°-60°)	2171.8	6.8	B2/2500		
BH (60°-80°)	2220.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	105.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1
2.5°	6881.2	6958.9	6987.2	7029.6	7139.2	7220.5	7269.9	7326.5	7393.6	7450.2	7485.5
5°	6400.5	6442.9	6510.1	6556.0	6693.9	6913.0	7061.4	7301.7	7294.7	7383.0	7517.3
7.5°	5934.0	5976.4	6008.2	6100.1	6298.0	6495.9	6768.1	7156.8	7128.6	7333.5	7542.1
10°	5644.2	5612.4	5623.0	5778.5	5934.0	6156.6	6499.5	6895.3	6997.8	7315.9	7612.8
12.5°	5372.0	5336.7	5421.5	5520.5	5711.3	5912.8	6322.8	6679.7	6835.2	7252.3	7644.6
15°	5202.4	5177.7	5283.7	5326.1	5552.3	5792.6	6082.4	6517.1	6686.8	7174.5	7595.1
17.5°	5107.0	5128.2	5167.1	5259.0	5403.9	5608.8	5926.9	6407.6	6481.8	7079.1	7584.5
20°	5124.6	5149.4	5152.9	5191.8	5290.8	5449.8	5774.9	6290.9	6340.4	7061.4	7612.8
22.5°	5266.0	5230.7	5244.8	5220.1	5248.3	5372.0	5658.3	6135.4	6326.3	6913.0	7552.7
25°	5478.1	5428.6	5421.5	5336.7	5283.7	5319.0	5637.1	6096.6	6220.3	6867.0	7549.1
27.5°	5852.7	5778.5	5778.5	5651.3	5435.7	5379.1	5577.0	6032.9	6142.5	6824.6	7467.9
30°	6213.2	6213.2	6216.7	6036.5	5796.2	5516.9	5601.8	6008.2	6078.9	6697.4	7358.3
32.5°	6651.4	6640.8	6623.2	6534.8	6163.7	5746.7	5721.9	5976.4	6011.7	6655.0	7326.5
35°	7079.1	7050.8	7188.6	7110.9	6732.7	6195.5	5845.6	5990.5	6068.3	6591.4	7227.5
37.5°	7400.7	7418.4	7704.6	7754.1	7429.0	6704.5	6195.5	6131.9	6206.1	6683.2	7227.5
40°	7817.7	7888.4	8157.0	8323.1	8125.2	7376.0	6750.4	6368.7	6421.7	6888.2	7383.0
42.5°	8365.5	8425.6	8768.5	8984.0	8927.5	8231.2	7298.2	6863.5	6821.1	7231.1	7616.3
45°	9090.1	9100.7	9447.0	9743.9	9860.5	9125.4	8167.6	7489.1	7453.7	7821.3	8043.9
47.5°	9952.4	9941.8	10157.4	10475.5	10790.0	10192.8	9167.8	8439.8	8312.5	8666.0	8754.3
50°	10786.5	10740.6	10790.0	11196.5	11800.8	11528.7	10383.6	9602.5	9475.3	9669.7	9821.7
52.5°	11246.0	11302.5	11168.2	11705.4	12875.2	13108.5	11995.2	10991.5	10881.9	10977.4	11242.4
55°	10924.3	11041.0	10952.6	11461.5	13345.3	15034.7	14080.4	12599.6	12458.2	12422.9	12857.6
57.5°	9556.6	9768.6	9786.3	10592.1	13182.7	16526.1	17013.8	14497.5	14285.4	13924.9	14373.8
60°	7337.1	7549.1	7711.7	8666.0	11790.2	17416.7	20413.8	17197.6	16497.8	15564.8	15833.4
62.5°	5142.3	5287.2	5449.8	6036.5	9090.1	16893.7	23354.3	21000.5	19710.5	17293.0	17628.8
65°	3746.3	3859.4	4025.5	4371.9	5584.1	13977.9	24718.5	25517.2	24294.4	19491.3	19448.9
67.5°	2820.3	2891.0	3110.1	3665.0	3870.0	8634.2	23304.8	30288.4	29298.9	21933.5	20912.1
70°	2134.7	2194.8	2399.7	3159.6	3615.5	4629.9	18385.1	31352.3	31635.0	24672.5	21894.6
72.5°	1470.2	1537.4	1767.1	2633.0	3442.4	3672.1	11539.3	28482.4	29553.3	25800.0	20841.4
75°	901.2	947.2	1081.5	1996.8	3417.6	3590.8	6351.0	23340.1	24474.6	23838.5	18233.1
77.5°	636.2	632.6	657.4	1169.8	2961.7	3612.0	3915.9	17102.2	18204.9	17568.7	12373.4
80°	463.0	466.5	491.3	699.8	2011.0	3672.1	3085.4	11454.5	11783.2	9160.8	4880.8
82.5°	279.2	293.3	353.4	473.6	1208.7	3315.1	2852.1	6365.2	5955.2	2940.5	1343.0
85°	148.4	148.4	208.5	300.4	643.2	2474.0	2746.1	3028.8	2537.6	911.8	498.3
87.5°	35.3	35.3	60.1	120.2	258.0	1184.0	1873.1	1205.2	964.8	307.5	205.0
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°	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1	7390.1
2.5°	7471.4	7429.0	7482.0	7376.0	7291.1	7294.7	7163.9	7156.8	7139.2	7047.3	7079.1
5°	7556.2	7520.9	7460.8	7344.2	7156.8	6969.5	6856.4	6711.5	6651.4	6619.6	6633.8
7.5°	7637.5	7573.9	7400.7	7238.1	6948.3	6594.9	6389.9	6195.5	5948.1	5919.9	5870.4
10°	7658.7	7524.4	7301.7	6955.4	6570.2	6177.9	5711.3	5350.8	5160.0	5011.6	4955.0
12.5°	7626.9	7570.3	7142.7	6697.4	6114.2	5499.3	4955.0	4446.1	4092.7	3908.9	3859.4
15°	7623.4	7524.4	6966.0	6305.1	5559.4	4757.1	3983.1	3371.7	3000.6	2848.6	2848.6
17.5°	7626.9	7390.1	6757.5	5909.3	4905.5	3820.5	2968.8	2466.9	2261.9	2240.7	2258.4
20°	7556.2	7291.1	6538.3	5442.7	4085.6	2869.8	2155.9	1950.9	1950.9	1979.2	1989.8
22.5°	7492.6	7142.7	6192.0	4866.6	3251.5	2078.1	1753.0	1692.9	1760.1	1809.5	1830.7
25°	7404.2	7019.0	5838.6	4269.4	2474.0	1675.2	1523.3	1537.4	1601.0	1689.4	1682.3
27.5°	7277.0	6803.4	5418.0	3576.7	1841.3	1445.5	1406.6	1413.7	1480.8	1519.7	1512.7
30°	7132.1	6584.3	5029.2	2887.5	1459.6	1325.3	1321.8	1339.5	1350.1	1371.3	1367.8
32.5°	6948.3	6294.5	4615.7	2244.2	1314.7	1258.2	1244.1	1233.5	1244.1	1240.5	1229.9
35°	6817.6	6139.0	4195.1	1710.6	1233.5	1198.1	1187.5	1169.8	1155.7	1134.5	1131.0
37.5°	6782.2	5983.5	3753.4	1396.0	1169.8	1152.2	1116.8	1085.0	1067.3	1056.7	1049.7
40°	6761.0	5881.0	3322.2	1226.4	1116.8	1099.1	1056.7	1014.3	996.7	986.1	989.6
42.5°	6835.2	5824.4	2883.9	1141.6	1070.9	1039.1	993.1	943.6	940.1	933.0	943.6
45°	7096.8	5895.1	2477.5	1081.5	1024.9	971.9	911.8	887.1	883.6	876.5	883.6
47.5°	7690.5	6071.8	2131.1	1042.6	975.5	929.5	865.9	830.5	827.0	823.5	823.5
50°	8510.5	6616.1	1841.3	996.7	943.6	880.0	819.9	781.1	774.0	759.9	759.9
52.5°	9796.9	7531.5	1668.2	971.9	887.1	834.1	770.5	728.1	710.4	696.2	696.2
55°	11246.0	8666.0	1636.4	929.5	827.0	777.5	721.0	678.6	660.9	643.2	636.2
57.5°	12896.4	10168.0	1862.5	901.2	784.6	721.0	657.4	618.5	604.4	586.7	579.6
60°	14433.8	11666.5	2565.9	858.8	745.7	668.0	604.4	565.5	547.8	530.1	530.1
62.5°	16211.6	13522.0	3756.9	858.8	710.4	611.4	547.8	519.5	508.9	491.3	487.7
65°	18314.4	15441.1	4626.3	911.8	699.8	561.9	494.8	466.5	455.9	445.3	441.8
67.5°	19915.4	16543.8	3979.6	1053.2	745.7	519.5	441.8	424.1	417.0	406.4	399.4
70°	20085.1	15872.3	2399.7	1138.0	791.7	477.1	395.8	378.2	378.2	367.6	360.5
72.5°	18561.8	14083.9	1615.1	1014.3	717.5	427.6	349.9	335.8	328.7	321.6	318.1
75°	15533.0	11945.7	1275.9	809.3	551.3	353.4	303.9	289.8	279.2	275.7	268.6
77.5°	10433.1	7764.7	943.6	632.6	406.4	286.3	254.5	240.3	229.7	226.2	215.6
80°	4007.8	2958.2	607.9	459.5	286.3	226.2	201.5	187.3	180.2	169.6	162.6
82.5°	1180.4	957.8	339.3	282.7	183.8	155.5	144.9	134.3	123.7	113.1	109.6
85°	487.7	438.2	208.5	148.4	113.1	91.9	84.8	74.2	63.6	56.5	49.5
87.5°	226.2	187.3	95.4	56.5	38.9	21.2	10.6	3.5	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)