

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: P480250

Luminaire Tested: **IFLD-L-SA7C-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480250
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

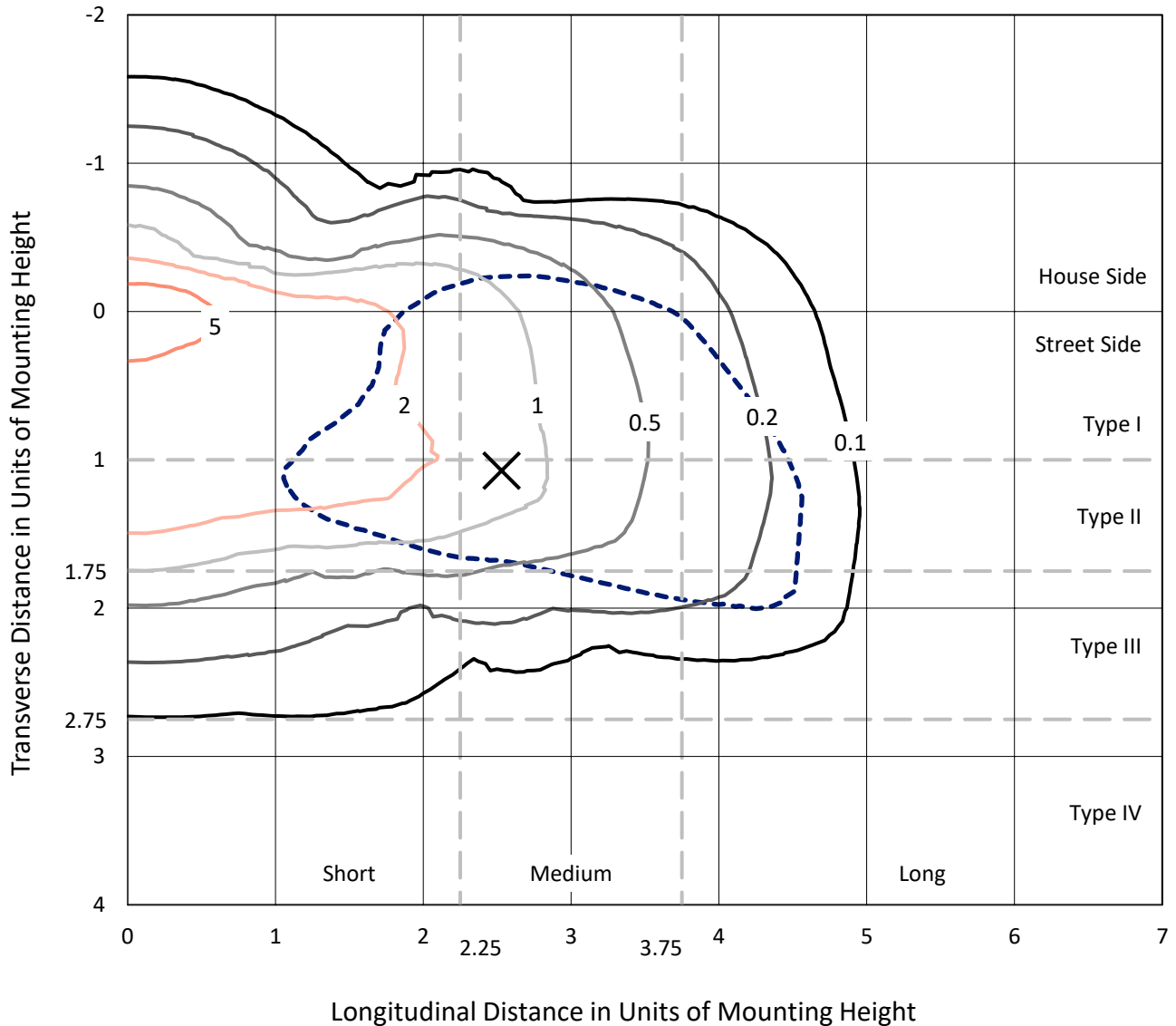
Lumens per Lamp: N/A
Luminaire Lumens: 32491.7 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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: P480250
 CATALOG NUMBER: IFLD-L-SA7C-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

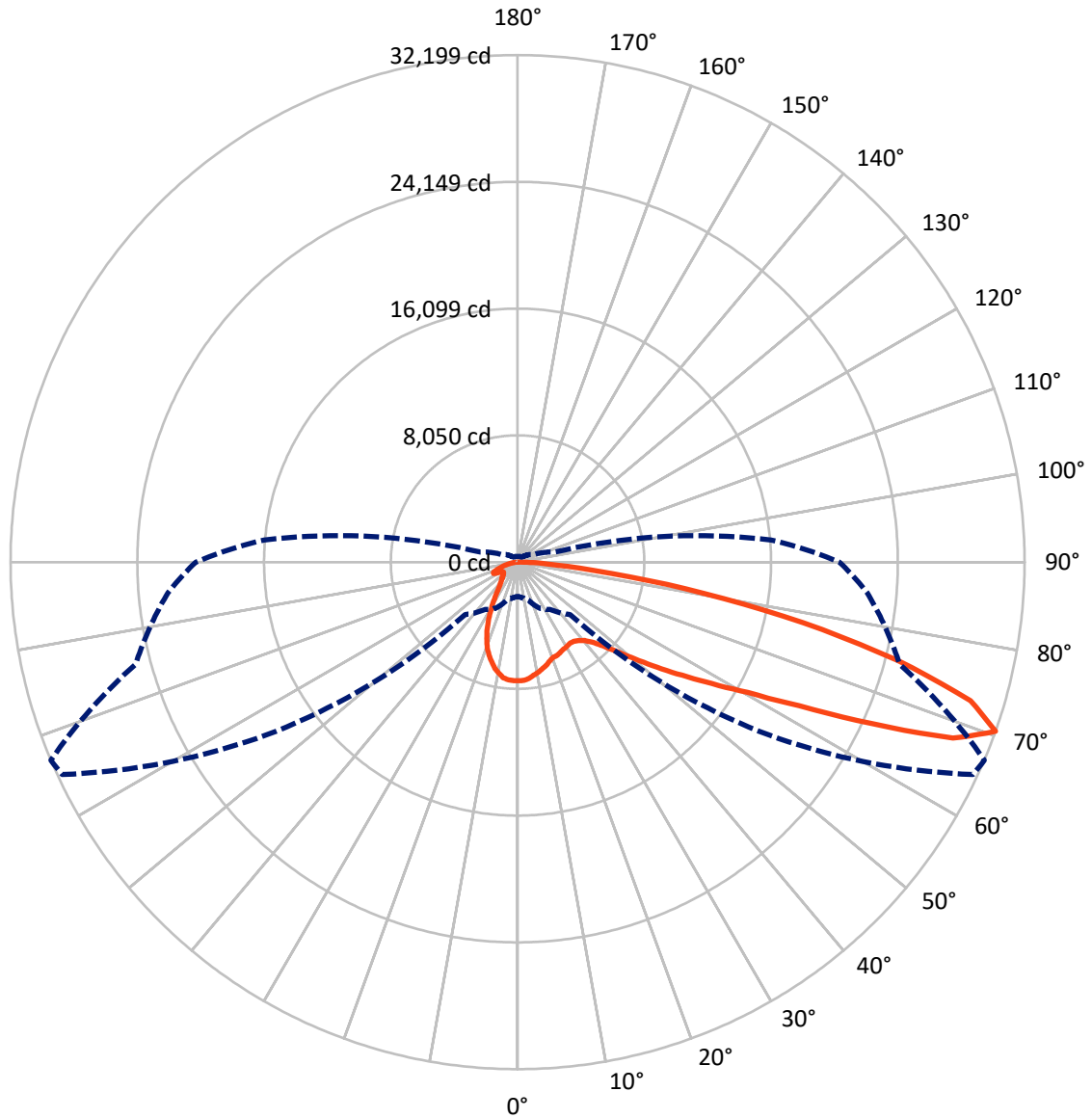
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P480250
CATALOG NUMBER: IFLD-L-SA7C-827-U-SL2

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	6328.1	0.0	6328.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26163.7	0.0	26163.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	32491.7	0.0	32491.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.3	2.0
10°-20°	1571.8	4.8
20°-30°	2122.6	6.5
30°-40°	2840.2	8.7
40°-50°	4176.5	12.9
50°-60°	6510.0	20.0
60°-70°	8019.3	24.7
70°-80°	5666.4	17.4
80°-90°	928.7	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°	32491.7	100.0
0°-180°	32491.7	100.0

Coefficient of Utilization



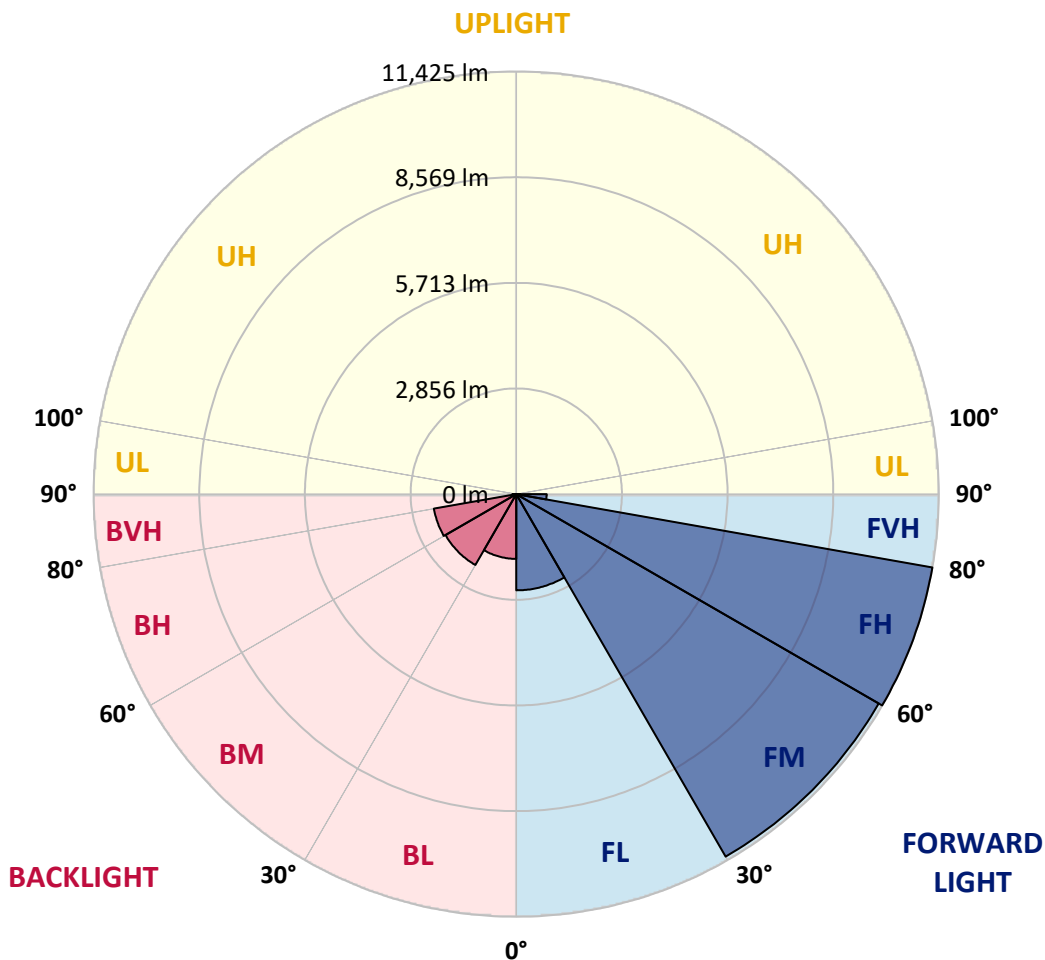
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2600.7	8.0			
FM (30°-60°)	11316.2	34.8			
FH (60°-80°)	11425.2	35.2			G4/12000
FVH (80°-90°)	821.6	2.5			G5
BL (0°-30°)	1749.9	5.4	B3/2500		
BM (30°-60°)	2210.5	6.8	B2/2500		
BH (60°-80°)	2260.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	107.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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 CATALOG NUMBER: IFLD-L-SA7C-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7
2.5°	7003.7	7082.9	7111.7	7154.8	7266.3	7349.1	7399.4	7457.0	7525.3	7582.9	7618.9
5°	6514.5	6557.7	6626.0	6672.8	6813.1	7036.1	7187.2	7431.8	7424.6	7514.5	7651.2
7.5°	6039.7	6082.9	6115.2	6208.8	6410.2	6611.6	6888.6	7284.3	7255.5	7464.2	7676.4
10°	5744.7	5712.3	5723.1	5881.4	6039.7	6266.3	6615.2	7018.1	7122.4	7446.2	7748.4
12.5°	5467.7	5431.8	5518.1	5618.8	5813.1	6018.1	6435.4	6798.7	6957.0	7381.4	7780.7
15°	5295.1	5269.9	5377.8	5421.0	5651.2	5895.8	6190.8	6633.2	6805.9	7302.3	7730.4
17.5°	5197.9	5219.5	5259.1	5352.6	5500.1	5708.7	6032.5	6521.7	6597.3	7205.2	7719.6
20°	5215.9	5241.1	5244.7	5284.3	5385.0	5546.9	5877.8	6403.0	6453.4	7187.2	7748.4
22.5°	5359.8	5323.8	5338.2	5313.1	5341.8	5467.7	5759.1	6244.7	6439.0	7036.1	7687.2
25°	5575.7	5525.3	5518.1	5431.8	5377.8	5413.8	5737.5	6205.2	6331.1	6989.3	7683.6
27.5°	5957.0	5881.4	5881.4	5751.9	5532.5	5474.9	5676.4	6140.4	6251.9	6946.2	7600.9
30°	6323.9	6323.9	6327.5	6144.0	5899.4	5615.2	5701.6	6115.2	6187.2	6816.7	7489.4
32.5°	6769.9	6759.1	6741.1	6651.2	6273.5	5849.0	5823.9	6082.9	6118.8	6773.5	7457.0
35°	7205.2	7176.4	7316.7	7237.6	6852.7	6305.9	5949.8	6097.2	6176.4	6708.8	7356.3
37.5°	7532.5	7550.5	7841.9	7892.2	7561.3	6823.9	6305.9	6241.1	6316.7	6802.3	7356.3
40°	7957.0	8028.9	8302.3	8471.4	8270.0	7507.3	6870.6	6482.1	6536.1	7010.9	7514.5
42.5°	8514.6	8575.7	8924.6	9144.1	9086.5	8377.9	7428.2	6985.8	6942.6	7359.9	7752.0
45°	9252.0	9262.8	9615.3	9917.5	10036.2	9288.0	8313.1	7622.5	7586.5	7960.6	8187.2
47.5°	10129.7	10118.9	10338.3	10662.1	10982.2	10374.3	9331.1	8590.1	8460.6	8820.3	8910.3
50°	10978.6	10931.9	10982.2	11395.9	12011.0	11734.0	10568.6	9773.6	9644.1	9841.9	9996.6
52.5°	11446.3	11503.8	11367.1	11913.9	13104.6	13342.0	12208.9	11187.3	11075.8	11172.9	11442.7
55°	11118.9	11237.6	11147.7	11665.7	13583.0	15302.5	14331.2	12824.0	12680.1	12644.1	13086.6
57.5°	9726.8	9942.6	9960.6	10780.8	13417.5	16820.5	17316.9	14755.7	14539.9	14172.9	14629.8
60°	7467.8	7683.6	7849.1	8820.3	12000.2	17727.0	20777.4	17503.9	16791.7	15842.0	16115.4
62.5°	5233.9	5381.4	5546.9	6144.0	9252.0	17194.6	23770.3	21374.5	20061.6	17601.1	17942.8
65°	3813.0	3928.1	4097.2	4449.7	5683.6	14226.9	25158.8	25971.7	24727.1	19838.5	19795.4
67.5°	2870.6	2942.5	3165.5	3730.3	3938.9	8787.9	23719.9	30828.0	29820.7	22324.2	21284.6
70°	2172.7	2233.9	2442.5	3215.9	3679.9	4712.3	18712.6	31910.7	32198.5	25112.0	22284.6
72.5°	1496.4	1564.8	1798.6	2679.9	3503.7	3737.5	11744.8	28989.8	30079.7	26259.5	21212.7
75°	917.3	964.0	1100.7	2032.4	3478.5	3654.7	6464.2	23755.9	24910.6	24263.1	18557.9
77.5°	647.5	643.9	669.1	1190.7	3014.4	3676.3	3985.7	17406.8	18529.1	17881.7	12593.8
80°	471.2	474.8	500.0	712.2	2046.8	3737.5	3140.4	11658.5	11993.0	9323.9	4967.7
82.5°	284.2	298.6	359.7	482.0	1230.2	3374.2	2902.9	6478.5	6061.3	2992.9	1366.9
85°	151.1	151.1	212.2	305.8	654.7	2518.0	2795.0	3082.8	2582.8	928.1	507.2
87.5°	36.0	36.0	61.2	122.3	262.6	1205.1	1906.5	1226.6	982.0	313.0	208.6
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°	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7
2.5°	7604.5	7561.3	7615.3	7507.3	7421.0	7424.6	7291.5	7284.3	7266.3	7172.8	7205.2
5°	7690.8	7654.8	7593.7	7475.0	7284.3	7093.7	6978.6	6831.1	6769.9	6737.5	6751.9
7.5°	7773.5	7708.8	7532.5	7367.1	7072.1	6712.4	6503.7	6305.9	6054.1	6025.3	5974.9
10°	7795.1	7658.4	7431.8	7079.3	6687.2	6287.9	5813.1	5446.2	5251.9	5100.8	5043.3
12.5°	7762.7	7705.2	7269.9	6816.7	6223.1	5597.2	5043.3	4525.3	4165.6	3978.5	3928.1
15°	7759.1	7658.4	7090.1	6417.4	5658.4	4841.8	4054.0	3431.7	3054.0	2899.3	2899.3
17.5°	7762.7	7521.7	6877.8	6014.5	4992.9	3888.6	3021.6	2510.8	2302.2	2280.6	2298.6
20°	7690.8	7421.0	6654.8	5539.7	4158.4	2920.9	2194.3	1985.7	1985.7	2014.4	2025.2
22.5°	7626.1	7269.9	6302.3	4953.3	3309.4	2115.2	1784.2	1723.1	1791.4	1841.8	1863.3
25°	7536.1	7144.0	5942.6	4345.4	2518.0	1705.1	1550.4	1564.8	1629.5	1719.5	1712.3
27.5°	7406.6	6924.6	5514.5	3640.4	1874.1	1471.3	1431.7	1438.9	1507.2	1546.8	1539.6
30°	7259.1	6701.6	5118.8	2938.9	1485.6	1348.9	1345.4	1363.3	1374.1	1395.7	1392.1
32.5°	7072.1	6406.6	4697.9	2284.2	1338.2	1280.6	1266.2	1255.4	1266.2	1262.6	1251.8
35°	6939.0	6248.3	4269.9	1741.0	1255.4	1219.4	1208.7	1190.7	1176.3	1154.7	1151.1
37.5°	6903.0	6090.1	3820.2	1420.9	1190.7	1172.7	1136.7	1104.3	1086.4	1075.6	1068.4
40°	6881.4	5985.7	3381.4	1248.2	1136.7	1118.7	1075.6	1032.4	1014.4	1003.6	1007.2
42.5°	6957.0	5928.2	2935.3	1161.9	1089.9	1057.6	1010.8	960.5	956.9	949.7	960.5
45°	7223.2	6000.1	2521.6	1100.7	1043.2	989.2	928.1	902.9	899.3	892.1	899.3
47.5°	7827.5	6180.0	2169.1	1061.2	992.8	946.1	881.3	845.3	841.7	838.1	838.1
50°	8662.0	6733.9	1874.1	1014.4	960.5	895.7	834.5	795.0	787.8	773.4	773.4
52.5°	9971.4	7665.6	1697.9	989.2	902.9	848.9	784.2	741.0	723.0	708.6	708.6
55°	11446.3	8820.3	1665.5	946.1	841.7	791.4	733.8	690.7	672.7	654.7	647.5
57.5°	13126.2	10349.1	1895.7	917.3	798.6	733.8	669.1	629.5	615.1	597.1	589.9
60°	14690.9	11874.3	2611.6	874.1	759.0	679.9	615.1	575.6	557.6	539.6	539.6
62.5°	16500.3	13762.9	3823.8	874.1	723.0	622.3	557.6	528.8	518.0	500.0	496.4
65°	18640.7	15716.1	4708.7	928.1	712.2	572.0	503.6	474.8	464.0	453.2	449.6
67.5°	20270.2	16838.5	4050.4	1072.0	759.0	528.8	449.6	431.7	424.5	413.7	406.5
70°	20442.9	16155.0	2442.5	1158.3	805.8	485.6	402.9	384.9	384.9	374.1	366.9
72.5°	18892.5	14334.8	1643.9	1032.4	730.2	435.3	356.1	341.7	334.5	327.3	323.7
75°	15809.7	12158.5	1298.6	823.8	561.2	359.7	309.4	295.0	284.2	280.6	273.4
77.5°	10618.9	7903.0	960.5	643.9	413.7	291.4	259.0	244.6	233.8	230.2	219.4
80°	4079.2	3010.9	618.7	467.6	291.4	230.2	205.0	190.7	183.5	172.7	165.5
82.5°	1201.5	974.8	345.3	287.8	187.1	158.3	147.5	136.7	125.9	115.1	111.5
85°	496.4	446.1	212.2	151.1	115.1	93.5	86.3	75.5	64.7	57.6	50.4
87.5°	230.2	190.7	97.1	57.6	39.6	21.6	10.8	3.6	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)