

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: P480668

Luminaire Tested: **IFLD-S-SA6B-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480668  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

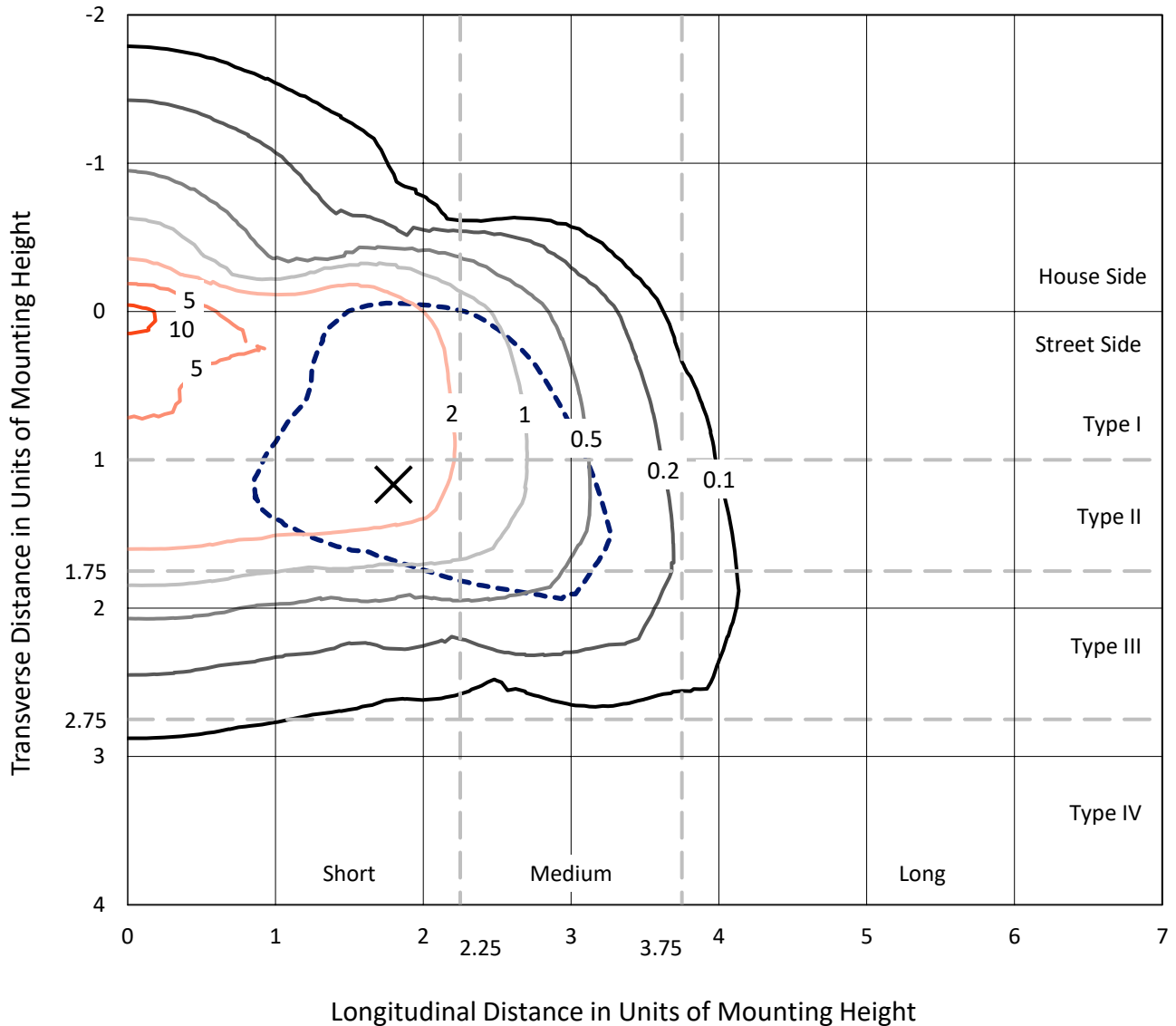
Lumens per Lamp: N/A  
Luminaire Lumens: 26171.4 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9  
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

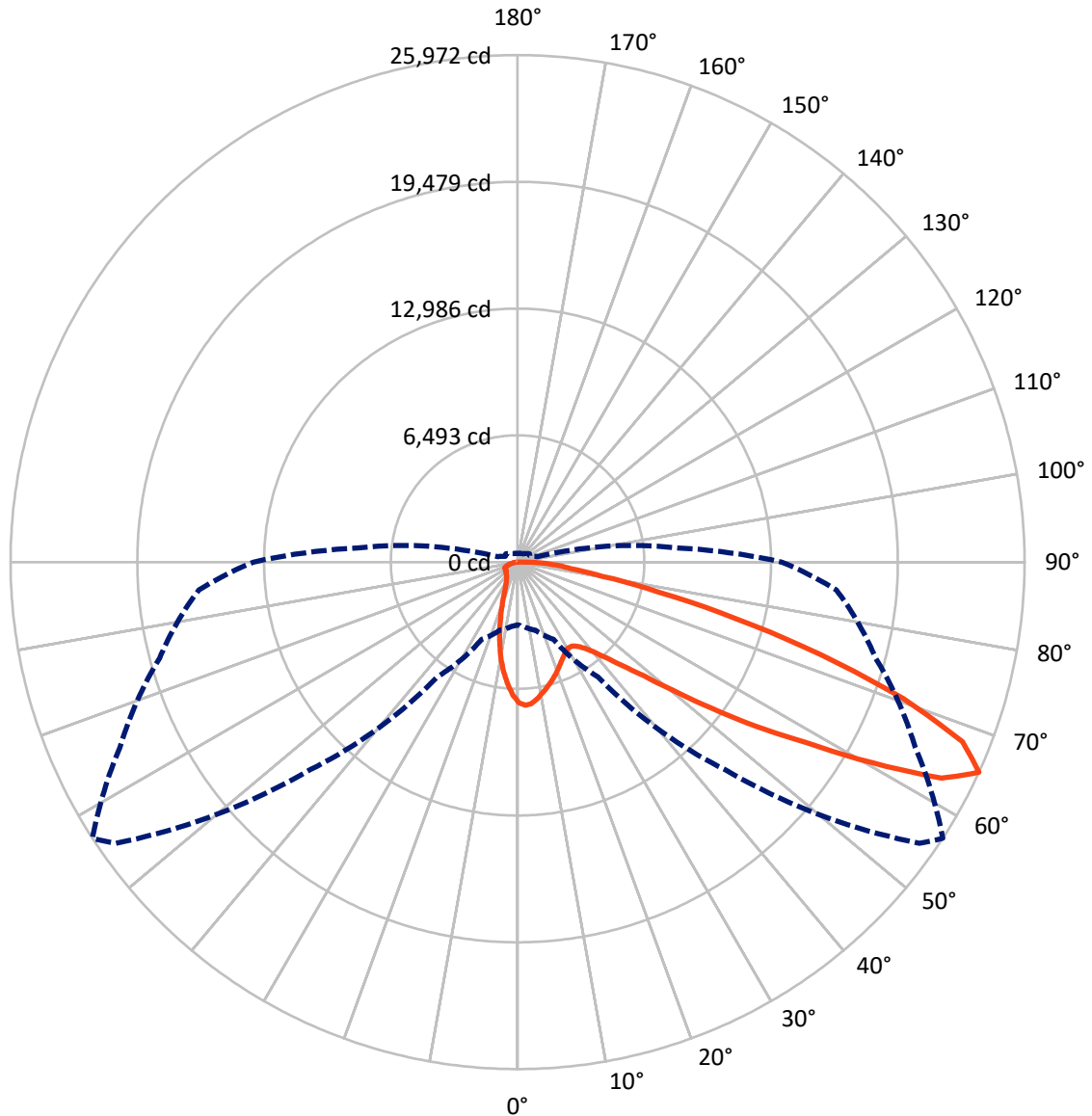
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4013.6	0.0	4013.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	22157.8	0.0	22157.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	26171.4	0.0	26171.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.7	2.3
10°-20°	1297.1	5.0
20°-30°	1677.0	6.4
30°-40°	2256.7	8.6
40°-50°	3598.3	13.7
50°-60°	6355.5	24.3
60°-70°	6991.9	26.7
70°-80°	2924.8	11.2
80°-90°	467.4	1.8
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°	26171.4	100.0
0°-180°	26171.4	100.0

**Coefficient of Utilization**



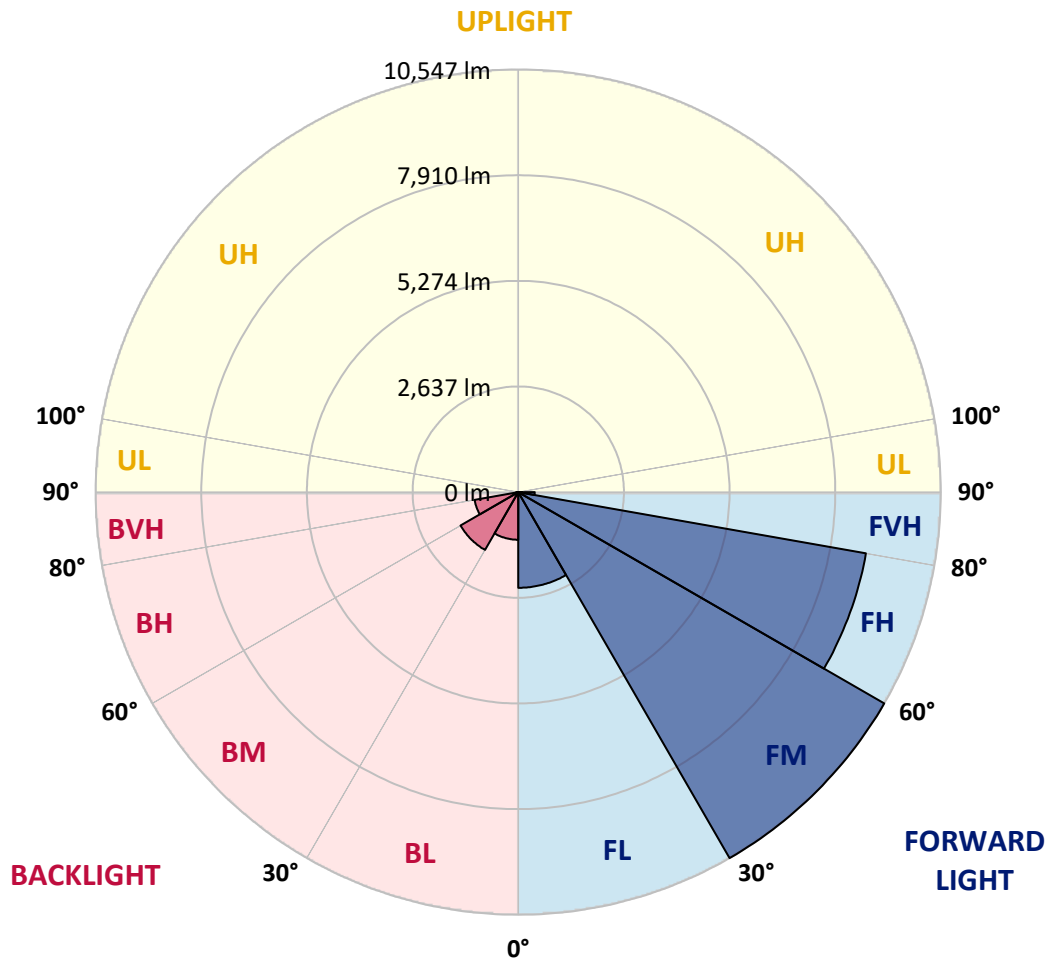
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2388.0	9.1			
FM (30°-60°)	10547.0	40.3			
FH (60°-80°)	8810.1	33.7			G4/12000
FVH (80°-90°)	412.6	1.6			G3/500
BL (0°-30°)	1188.6	4.5	B3/2500		
BM (30°-60°)	1663.5	6.4	B2/2500		
BH (60°-80°)	1106.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	54.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8
2.5°	7391.1	7402.9	7402.9	7426.5	7346.9	7385.2	7379.3	7344.0	7355.8	7293.9	7232.1
5°	7182.0	7173.2	7220.3	7226.2	7288.1	7305.7	7320.4	7296.9	7302.8	7167.3	7108.4
7.5°	6646.1	6643.2	6722.7	6790.4	6920.0	7040.7	7120.2	7096.6	7129.0	7043.6	6905.2
10°	6010.1	6077.8	6160.2	6228.0	6466.5	6619.6	6825.7	6846.4	6970.0	6949.4	6699.1
12.5°	5533.0	5562.5	5624.3	5818.7	6036.6	6289.8	6584.3	6610.8	6731.5	6790.4	6572.5
15°	5141.4	5167.9	5247.4	5391.7	5636.1	5936.5	6310.4	6378.2	6619.6	6640.2	6407.6
17.5°	4855.8	4876.4	4929.4	5073.7	5273.9	5659.7	6013.0	6133.7	6451.8	6551.9	6236.8
20°	4743.9	4699.7	4729.1	4820.4	5020.7	5318.1	5774.5	5880.5	6286.9	6484.2	6074.8
22.5°	4693.8	4655.5	4673.2	4667.3	4826.3	5038.3	5518.3	5630.2	6130.8	6404.7	5930.6
25°	4732.1	4732.1	4714.4	4699.7	4717.4	4855.8	5241.5	5415.2	5921.7	6336.9	5783.3
27.5°	4938.2	4858.7	4867.5	4805.7	4788.0	4788.0	5117.8	5220.9	5854.0	6298.6	5662.6
30°	5070.7	5109.0	5111.9	5020.7	4929.4	4764.5	5003.0	5103.1	5798.1	6345.8	5591.9
32.5°	5409.4	5391.7	5341.6	5324.0	5188.5	5003.0	5058.9	5126.7	5765.7	6451.8	5612.5
35°	5748.0	5739.2	5742.1	5733.3	5591.9	5318.1	5209.1	5300.4	5824.6	6637.3	5683.2
37.5°	6098.4	6122.0	6222.1	6222.1	6071.9	5774.5	5630.2	5603.7	6039.5	6940.6	5851.1
40°	6448.8	6507.7	6634.3	6834.6	6622.6	6345.8	6113.1	6071.9	6298.6	7346.9	6254.5
42.5°	6784.5	6881.7	7132.0	7429.4	7358.7	7081.9	6772.7	6725.6	6831.6	7950.6	6816.9
45°	7214.4	7296.9	7691.5	8147.9	8245.1	8000.7	7638.5	7600.2	7594.3	8834.0	7591.4
47.5°	7868.2	7956.5	8351.1	8810.4	9110.8	9149.1	8742.7	8701.5	8560.1	10026.6	8725.1
50°	8686.8	8831.1	9163.8	9699.7	10135.5	10544.9	10430.0	10309.3	10032.5	11413.5	10162.0
52.5°	9284.5	9461.2	9911.8	10597.9	11366.4	12017.2	12429.4	12429.4	11793.4	12935.9	11890.6
55°	9443.5	9549.6	10117.9	11110.2	12426.5	14072.6	14935.4	14870.6	13890.0	14537.8	13901.8
57.5°	8810.4	8948.8	9637.9	10677.4	12983.0	15995.4	17423.6	17438.3	16180.9	16398.9	15886.5
60°	7067.2	7111.4	7924.1	9314.0	12447.1	17544.3	20821.7	20877.7	18787.0	18056.7	16896.5
62.5°	4885.2	5026.5	5639.0	6858.1	10312.2	17370.6	24099.2	24376.0	20874.7	18931.3	17055.5
65°	3215.6	3301.0	3627.8	4369.9	7179.1	15056.1	25118.0	25972.0	22470.8	18981.3	16390.0
67.5°	2332.2	2346.9	2444.1	2826.9	4313.9	10827.5	23377.7	24582.1	23068.5	18563.2	14829.3
70°	1884.6	1896.4	1931.7	2176.1	2785.7	6775.7	19066.7	20954.3	21275.2	16581.4	11943.6
72.5°	1531.2	1546.0	1590.1	1819.8	2296.8	3769.2	13943.0	16242.8	17305.8	12267.5	7938.8
75°	1204.4	1216.1	1322.2	1548.9	2158.4	2588.4	9249.2	11501.9	11646.2	7170.3	3716.2
77.5°	824.5	845.1	974.7	1313.3	2031.8	2264.4	5765.7	7367.6	6610.8	2806.3	1278.0
80°	524.2	553.6	630.2	995.3	1796.2	2161.4	3586.6	4399.3	2894.6	960.0	615.4
82.5°	309.2	338.6	415.2	644.9	1410.5	2005.3	2526.5	2753.3	1357.5	491.8	371.0
85°	170.8	191.4	250.3	388.7	827.5	1781.5	2023.0	1975.9	777.4	262.1	232.6
87.5°	55.9	64.8	91.3	156.1	341.6	839.2	1213.2	1139.6	403.4	120.7	91.3
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°	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8	7196.8
2.5°	7190.9	7182.0	7049.5	6949.4	6778.6	6637.3	6581.3	6504.8	6501.8	6445.9	6431.2
5°	7017.1	6925.9	6722.7	6528.3	6225.0	6021.8	5836.3	5706.8	5653.8	5538.9	5512.4
7.5°	6793.3	6672.6	6360.5	5995.3	5639.0	5321.0	5032.4	4743.9	4581.9	4526.0	4464.1
10°	6560.7	6348.7	5886.4	5477.1	4979.4	4490.6	4037.1	3630.8	3409.9	3253.9	3186.1
12.5°	6375.2	6092.5	5503.6	4891.1	4234.4	3580.7	3053.6	2626.6	2376.3	2258.6	2205.6
15°	6166.1	5792.2	5085.4	4311.0	3492.4	2750.3	2235.0	1899.3	1799.2	1743.2	1734.4
17.5°	5945.3	5512.4	4632.0	3739.7	2768.0	2070.1	1737.4	1601.9	1557.7	1534.2	1522.4
20°	5739.2	5262.1	4166.7	3103.7	2167.3	1660.8	1504.7	1434.1	1431.1	1442.9	1439.9
22.5°	5447.6	4935.3	3707.3	2514.7	1731.5	1445.8	1345.7	1328.0	1345.7	1360.4	1366.3
25°	5282.7	4667.3	3195.0	1996.5	1431.1	1283.9	1251.5	1245.6	1272.1	1289.8	1286.8
27.5°	5111.9	4390.5	2717.9	1599.0	1254.4	1169.0	1163.1	1169.0	1195.5	1222.0	1219.1
30°	4979.4	4169.6	2270.3	1336.9	1119.0	1086.6	1080.7	1086.6	1101.3	1104.3	1104.3
32.5°	4870.5	3907.6	1890.5	1160.2	1036.5	1010.0	1015.9	1013.0	1015.9	1018.9	1021.8
35°	4805.7	3751.5	1578.3	1051.2	968.8	948.2	945.2	936.4	939.3	942.3	939.3
37.5°	4944.1	3674.9	1331.0	974.7	921.7	904.0	898.1	892.2	883.4	883.4	883.4
40°	5153.2	3633.7	1180.8	924.6	886.3	865.7	848.1	842.2	842.2	845.1	848.1
42.5°	5568.4	3701.4	1077.7	886.3	842.2	818.6	800.9	803.9	812.7	821.6	815.7
45°	6169.1	3907.6	1030.6	856.9	815.7	783.3	771.5	768.6	777.4	792.1	803.9
47.5°	6955.3	4228.5	1013.0	830.4	798.0	753.8	739.1	747.9	759.7	780.3	771.5
50°	8242.1	4950.0	1027.7	806.8	771.5	739.1	721.4	712.6	721.4	736.2	742.1
52.5°	9923.5	6260.4	1083.6	795.1	753.8	727.3	697.9	683.2	692.0	703.8	703.8
55°	11934.7	8050.7	1239.7	780.3	724.4	709.7	677.3	647.8	653.7	653.7	650.8
57.5°	13707.4	9402.3	1425.2	759.7	706.7	686.1	644.9	609.5	603.7	606.6	609.5
60°	14502.5	9761.6	1513.6	753.8	706.7	656.7	600.7	565.4	556.5	550.7	550.7
62.5°	14364.1	9140.2	1333.9	727.3	724.4	633.1	559.5	521.2	509.4	497.6	500.6
65°	13527.8	8253.9	1051.2	692.0	727.3	618.4	518.3	480.0	459.4	444.6	441.7
67.5°	11999.5	7046.6	833.3	665.5	697.9	591.9	482.9	438.8	421.1	406.4	400.5
70°	9387.6	5524.2	724.4	630.2	627.2	527.1	441.7	403.4	376.9	359.2	359.2
72.5°	6086.6	3492.4	621.3	559.5	541.8	441.7	382.8	359.2	338.6	323.9	323.9
75°	2756.2	1622.5	500.6	468.2	441.7	353.4	323.9	312.1	294.5	279.7	279.7
77.5°	989.4	692.0	374.0	368.1	329.8	273.9	262.1	253.2	241.5	226.7	226.7
80°	553.6	438.8	279.7	268.0	229.7	203.2	188.5	188.5	182.6	173.7	170.8
82.5°	350.4	285.6	206.1	179.6	150.2	135.5	129.6	126.6	123.7	111.9	109.0
85°	220.9	194.3	135.5	106.0	88.3	67.7	64.8	61.8	55.9	50.1	50.1
87.5°	100.1	111.9	53.0	32.4	23.6	14.7	8.8	2.9	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)