

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: P480403

Luminaire Tested: **IFLD-M-SA4E-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480403
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

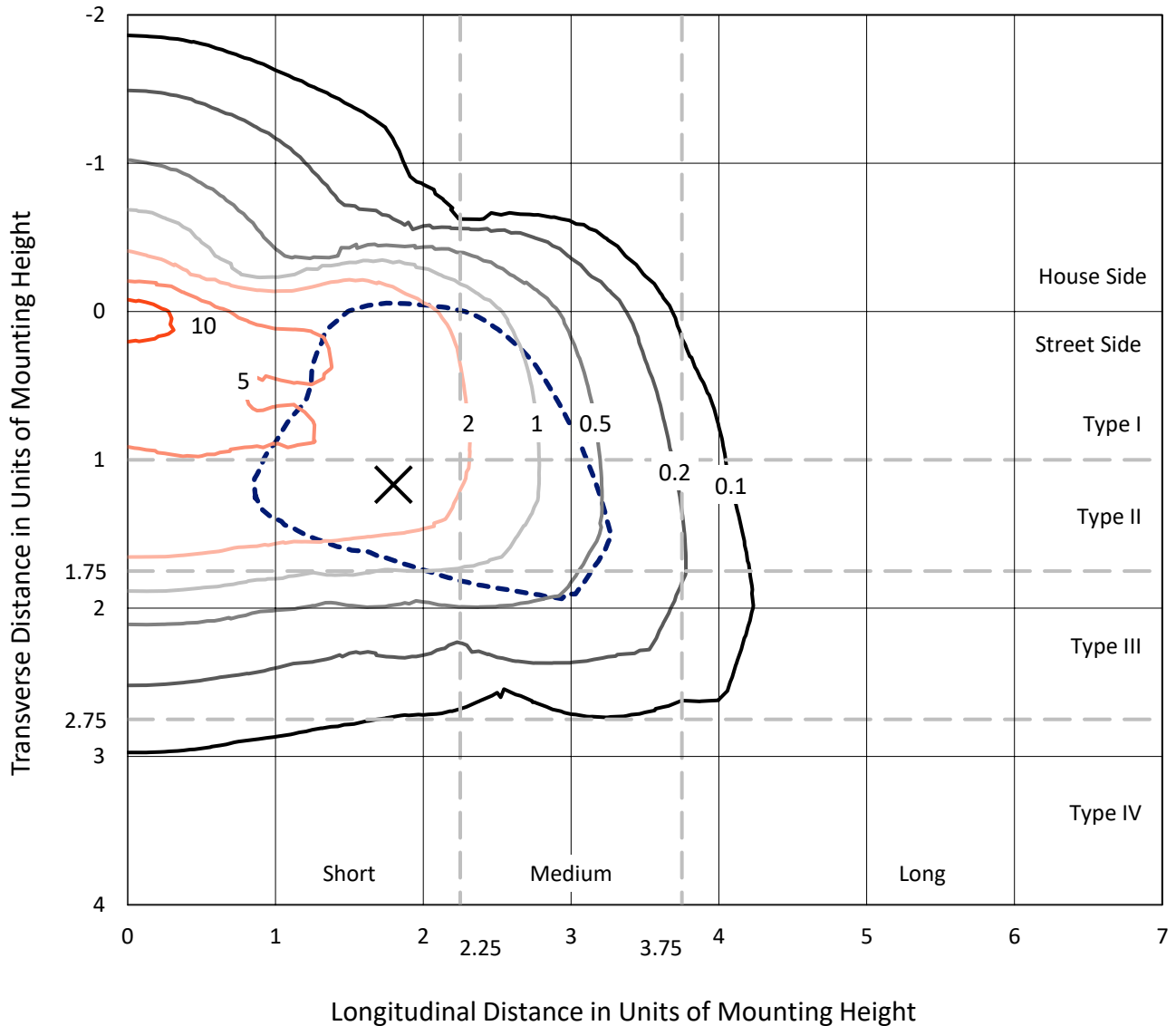
Lumens per Lamp: N/A
Luminaire Lumens: 29876 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

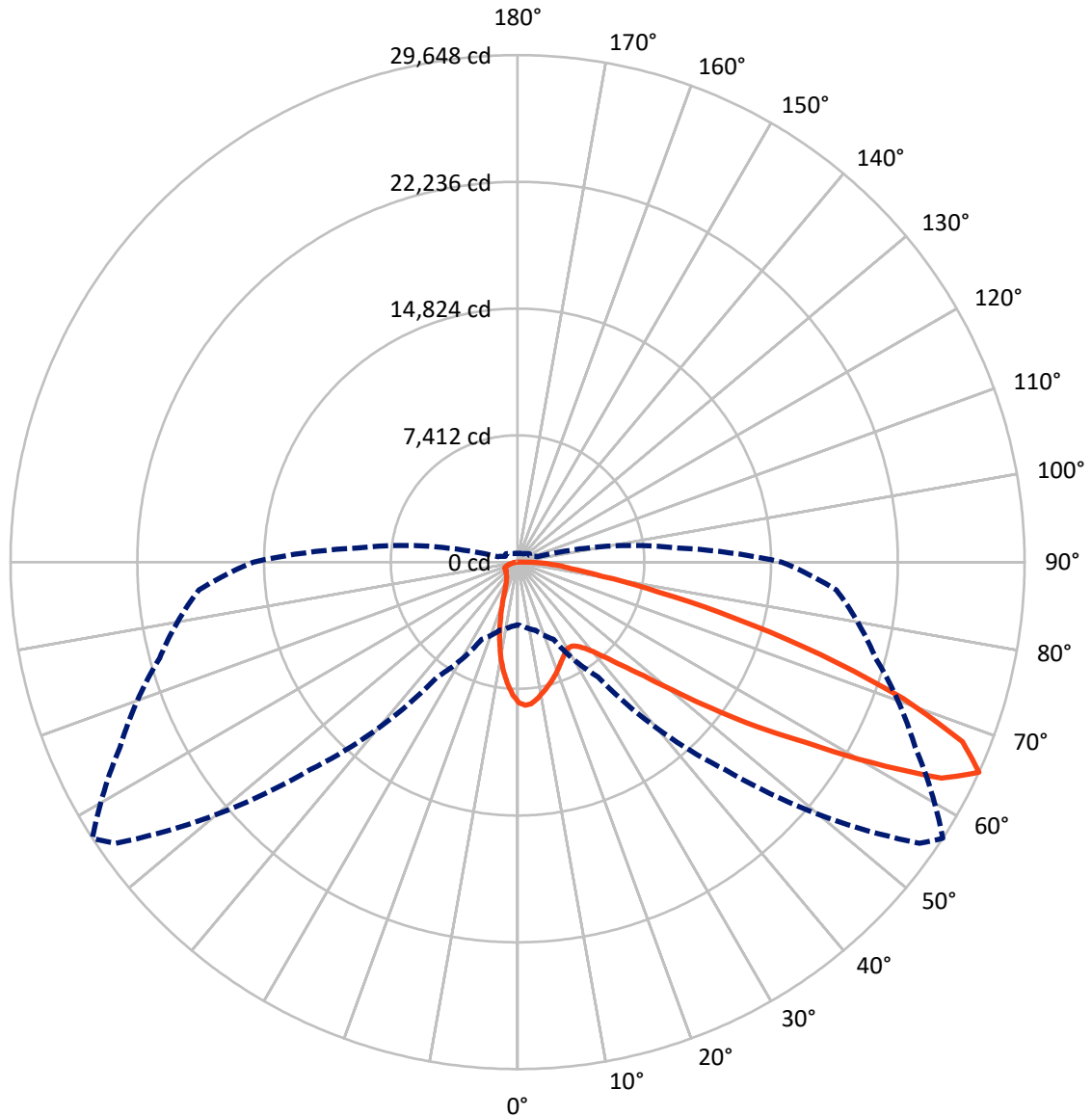
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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
House Side	Lumens	4581.8	0.0	4581.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25294.2	0.0	25294.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	29876.0	0.0	29876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.0	2.3
10°-20°	1480.6	5.0
20°-30°	1914.3	6.4
30°-40°	2576.1	8.6
40°-50°	4107.7	13.7
50°-60°	7255.2	24.3
60°-70°	7981.6	26.7
70°-80°	3338.8	11.2
80°-90°	533.6	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°	29876.0	100.0
0°-180°	29876.0	100.0

Coefficient of Utilization



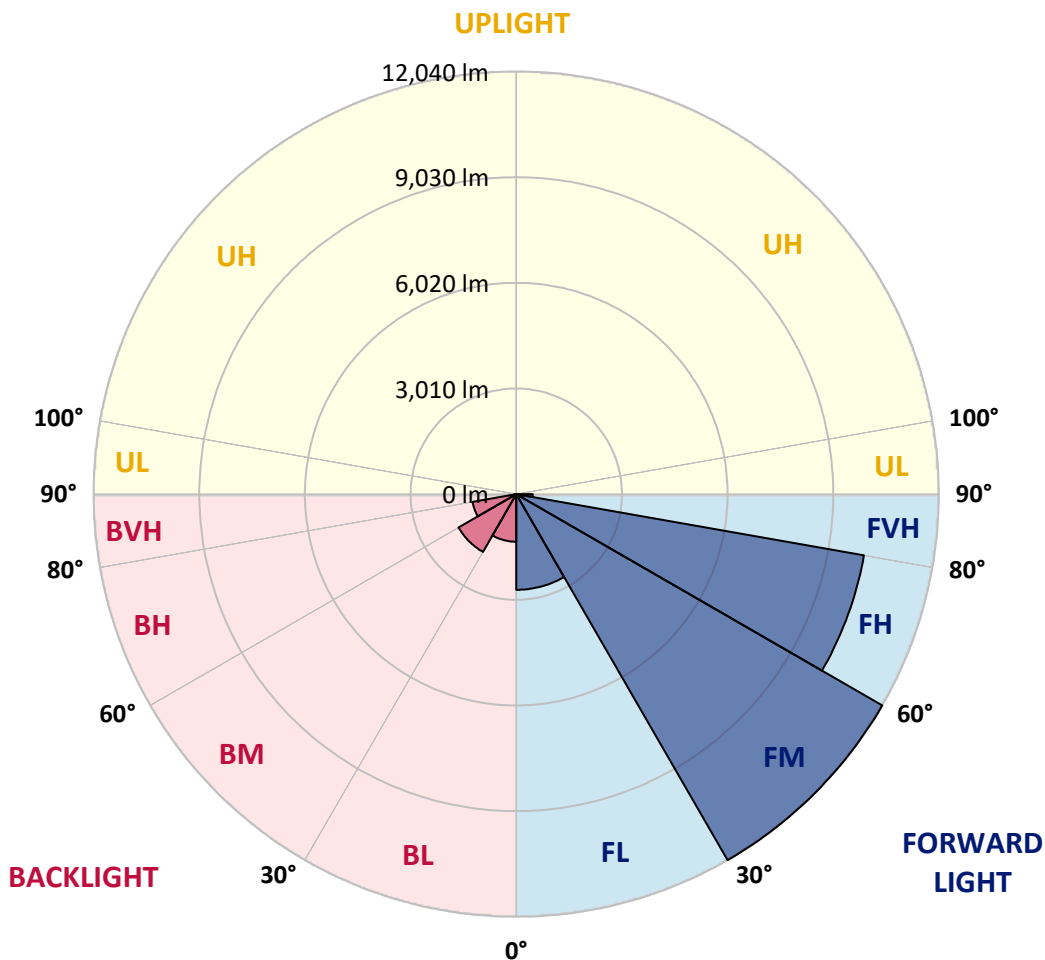
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2726.1	9.1			
FM (30°-60°)	12040.0	40.3			
FH (60°-80°)	10057.1	33.7			G4/12000
FVH (80°-90°)	471.0	1.6			G3/500
BL (0°-30°)	1356.9	4.5	B3/2500		
BM (30°-60°)	1898.9	6.4	B2/2500		
BH (60°-80°)	1263.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	62.6	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°	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5
2.5°	8437.3	8450.8	8450.8	8477.7	8386.9	8430.6	8423.9	8383.5	8397.0	8326.4	8255.8
5°	8198.7	8188.6	8242.4	8249.1	8319.7	8339.8	8356.7	8329.8	8336.5	8181.9	8114.6
7.5°	7586.9	7583.5	7674.3	7751.6	7899.5	8037.3	8128.1	8101.2	8138.2	8040.7	7882.7
10°	6860.8	6938.1	7032.2	7109.5	7381.8	7556.6	7791.9	7815.5	7956.6	7933.1	7647.4
12.5°	6316.2	6349.8	6420.4	6642.3	6891.0	7180.1	7516.3	7546.5	7684.4	7751.6	7502.8
15°	5869.2	5899.4	5990.2	6154.9	6433.9	6776.8	7203.7	7281.0	7556.6	7580.2	7314.6
17.5°	5543.1	5566.6	5627.1	5791.8	6020.4	6460.8	6864.2	7002.0	7365.0	7479.3	7119.6
20°	5415.4	5364.9	5398.5	5502.8	5731.3	6070.8	6591.9	6712.9	7176.8	7402.0	6934.7
22.5°	5358.2	5314.5	5334.7	5328.0	5509.5	5751.5	6299.4	6427.2	6998.6	7311.2	6770.0
25°	5401.9	5401.9	5381.7	5364.9	5385.1	5543.1	5983.4	6181.8	6759.9	7233.9	6602.0
27.5°	5637.2	5546.5	5556.5	5485.9	5465.8	5465.8	5842.3	5959.9	6682.6	7190.2	6464.1
30°	5788.5	5832.2	5835.5	5731.3	5627.1	5438.9	5711.2	5825.5	6618.8	7244.0	6383.5
32.5°	6175.1	6154.9	6097.7	6077.6	5922.9	5711.2	5775.0	5852.3	6581.8	7365.0	6407.0
35°	6561.6	6551.5	6554.9	6544.8	6383.5	6070.8	5946.5	6050.7	6649.0	7576.8	6487.7
37.5°	6961.6	6988.5	7102.8	7102.8	6931.4	6591.9	6427.2	6396.9	6894.4	7923.0	6679.3
40°	7361.7	7428.9	7573.4	7802.0	7560.0	7244.0	6978.4	6931.4	7190.2	8386.9	7139.8
42.5°	7744.9	7855.8	8141.5	8481.0	8400.4	8084.4	7731.4	7677.6	7798.6	9076.0	7781.8
45°	8235.6	8329.8	8780.2	9301.2	9412.2	9133.2	8719.7	8676.0	8669.3	10084.5	8665.9
47.5°	8981.9	9082.7	9533.2	10057.6	10400.4	10444.1	9980.3	9933.2	9771.8	11445.9	9960.1
50°	9916.4	10081.1	10460.9	11072.7	11570.2	12037.5	11906.4	11768.6	11452.6	13029.1	11600.5
52.5°	10598.8	10800.5	11314.8	12098.0	12975.3	13718.2	14188.8	14188.8	13462.8	14767.0	13573.7
55°	10780.3	10901.3	11550.1	12682.9	14185.5	16064.5	17049.5	16975.5	15856.1	16595.7	15869.6
57.5°	10057.6	10215.6	11002.1	12188.7	14820.8	18259.6	19889.9	19906.7	18471.4	18720.1	18135.2
60°	8067.6	8118.0	9045.8	10632.4	14209.0	20027.7	23769.1	23832.9	21446.3	20612.6	19288.2
62.5°	5576.7	5738.1	6437.2	7828.9	11771.9	19829.4	27510.4	27826.4	23829.6	21611.0	19469.7
65°	3670.7	3768.2	4141.4	4988.4	8195.3	17187.3	28673.5	29648.3	25651.5	21668.1	18710.0
67.5°	2662.3	2679.1	2790.0	3227.0	4924.6	12360.2	26686.8	28061.7	26333.9	21190.8	16928.4
70°	2151.4	2164.8	2205.1	2484.1	3180.0	7734.8	21765.6	23920.3	24286.7	18928.5	13634.2
72.5°	1748.0	1764.8	1815.2	2077.4	2622.0	4302.7	15916.6	18542.0	19755.5	14004.0	9062.6
75°	1374.8	1388.3	1509.3	1768.1	2464.0	2954.7	10558.4	13130.0	13294.7	8185.2	4242.2
77.5°	941.2	964.7	1112.7	1499.2	2319.4	2585.0	6581.8	8410.4	7546.5	3203.5	1458.9
80°	598.3	632.0	719.4	1136.2	2050.5	2467.3	4094.3	5022.1	3304.3	1095.8	702.6
82.5°	353.0	386.6	474.0	736.2	1610.2	2289.2	2884.2	3143.0	1549.6	561.4	423.5
85°	195.0	218.5	285.7	443.7	944.6	2033.7	2309.3	2255.6	887.4	299.2	265.6
87.5°	63.9	74.0	104.2	178.2	389.9	958.0	1384.9	1300.9	460.5	137.8	104.2
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°	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5	8215.5
2.5°	8208.7	8198.7	8047.4	7933.1	7738.1	7576.8	7512.9	7425.5	7422.2	7358.3	7341.5
5°	8010.4	7906.2	7674.3	7452.4	7106.2	6874.2	6662.5	6514.6	6454.1	6323.0	6292.7
7.5°	7754.9	7617.1	7260.8	6844.0	6437.2	6074.2	5744.8	5415.4	5230.5	5166.6	5096.0
10°	7489.4	7247.4	6719.6	6252.4	5684.3	5126.3	4608.6	4144.7	3892.6	3714.4	3637.1
12.5°	7277.6	6954.9	6282.6	5583.4	4833.8	4087.6	3485.9	2998.4	2712.7	2578.3	2517.8
15°	7039.0	6612.0	5805.3	4921.2	3986.7	3139.6	2551.4	2168.2	2053.9	1990.0	1979.9
17.5°	6786.8	6292.7	5287.6	4269.1	3159.8	2363.1	1983.3	1828.6	1778.2	1751.3	1737.9
20°	6551.5	6007.0	4756.5	3543.0	2474.1	1895.9	1717.7	1637.0	1633.7	1647.1	1643.8
22.5°	6218.7	5633.9	4232.1	2870.7	1976.6	1650.5	1536.2	1516.0	1536.2	1553.0	1559.7
25°	6030.5	5328.0	3647.2	2279.1	1633.7	1465.6	1428.6	1421.9	1452.2	1472.3	1469.0
27.5°	5835.5	5012.0	3102.7	1825.3	1432.0	1334.5	1327.8	1334.5	1364.8	1395.0	1391.7
30°	5684.3	4759.9	2591.7	1526.1	1277.4	1240.4	1233.7	1240.4	1257.2	1260.6	1260.6
32.5°	5559.9	4460.7	2158.1	1324.4	1183.2	1153.0	1159.7	1156.4	1159.7	1163.1	1166.4
35°	5485.9	4282.5	1801.8	1200.1	1105.9	1082.4	1079.0	1069.0	1072.3	1075.7	1072.3
37.5°	5643.9	4195.1	1519.4	1112.7	1052.1	1032.0	1025.3	1018.5	1008.4	1008.4	1008.4
40°	5882.6	4148.1	1348.0	1055.5	1011.8	988.3	968.1	961.4	961.4	964.7	968.1
42.5°	6356.6	4225.4	1230.3	1011.8	961.4	934.5	914.3	917.7	927.8	937.9	931.1
45°	7042.3	4460.7	1176.5	978.2	931.1	894.2	880.7	877.3	887.4	904.2	917.7
47.5°	7939.8	4827.1	1156.4	947.9	911.0	860.5	843.7	853.8	867.3	890.8	880.7
50°	9408.8	5650.7	1173.2	921.0	880.7	843.7	823.6	813.5	823.6	840.4	847.1
52.5°	11328.2	7146.5	1237.0	907.6	860.5	830.3	796.7	779.9	789.9	803.4	803.4
55°	13624.1	9190.3	1415.2	890.8	826.9	810.1	773.1	739.5	746.2	746.2	742.9
57.5°	15647.7	10733.2	1627.0	867.3	806.8	783.2	736.2	695.8	689.1	692.5	695.8
60°	16555.3	11143.3	1727.8	860.5	806.8	749.6	685.7	645.4	635.3	628.6	628.6
62.5°	16397.3	10434.1	1522.8	830.3	826.9	722.7	638.7	595.0	581.5	568.1	571.5
65°	15442.7	9422.2	1200.1	789.9	830.3	705.9	591.6	547.9	524.4	507.6	504.2
67.5°	13698.1	8044.0	951.3	759.7	796.7	675.7	551.3	500.9	480.7	463.9	457.2
70°	10716.4	6306.1	826.9	719.4	716.0	601.7	504.2	460.5	430.3	410.1	410.1
72.5°	6948.2	3986.7	709.3	638.7	618.5	504.2	437.0	410.1	386.6	369.8	369.8
75°	3146.4	1852.2	571.5	534.5	504.2	403.4	369.8	356.3	336.1	319.3	319.3
77.5°	1129.5	789.9	426.9	420.2	376.5	312.6	299.2	289.1	275.6	258.8	258.8
80°	632.0	500.9	319.3	305.9	262.2	231.9	215.1	215.1	208.4	198.3	195.0
82.5°	400.0	326.1	235.3	205.1	171.4	154.6	147.9	144.5	141.2	127.7	124.4
85°	252.1	221.9	154.6	121.0	100.8	77.3	74.0	70.6	63.9	57.1	57.1
87.5°	114.3	127.7	60.5	37.0	26.9	16.8	10.1	3.4	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)