

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: P480169

Luminaire Tested: **IFLD-M-SA4E-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480169
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

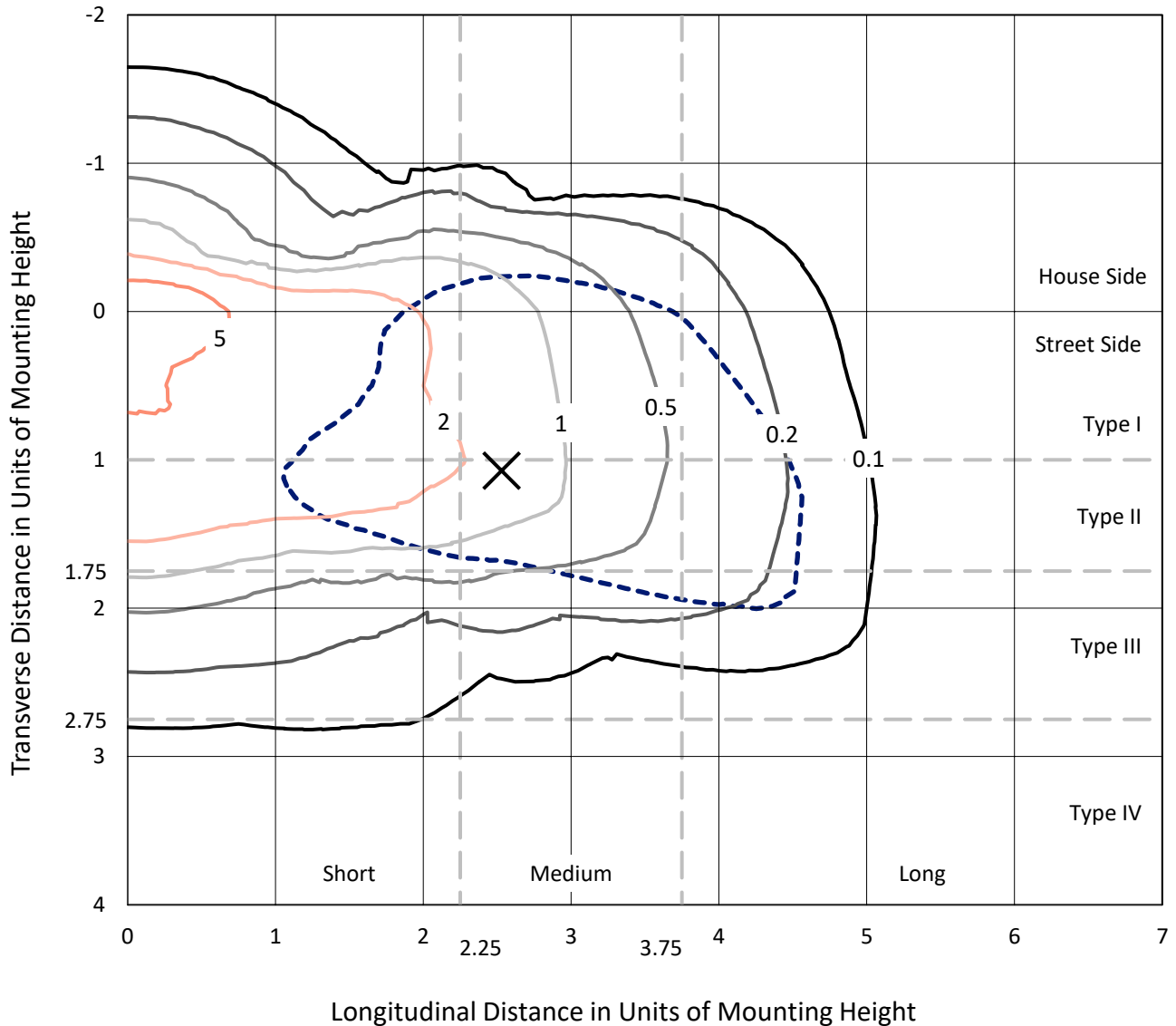
Lumens per Lamp: N/A
Luminaire Lumens: 36924.7 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

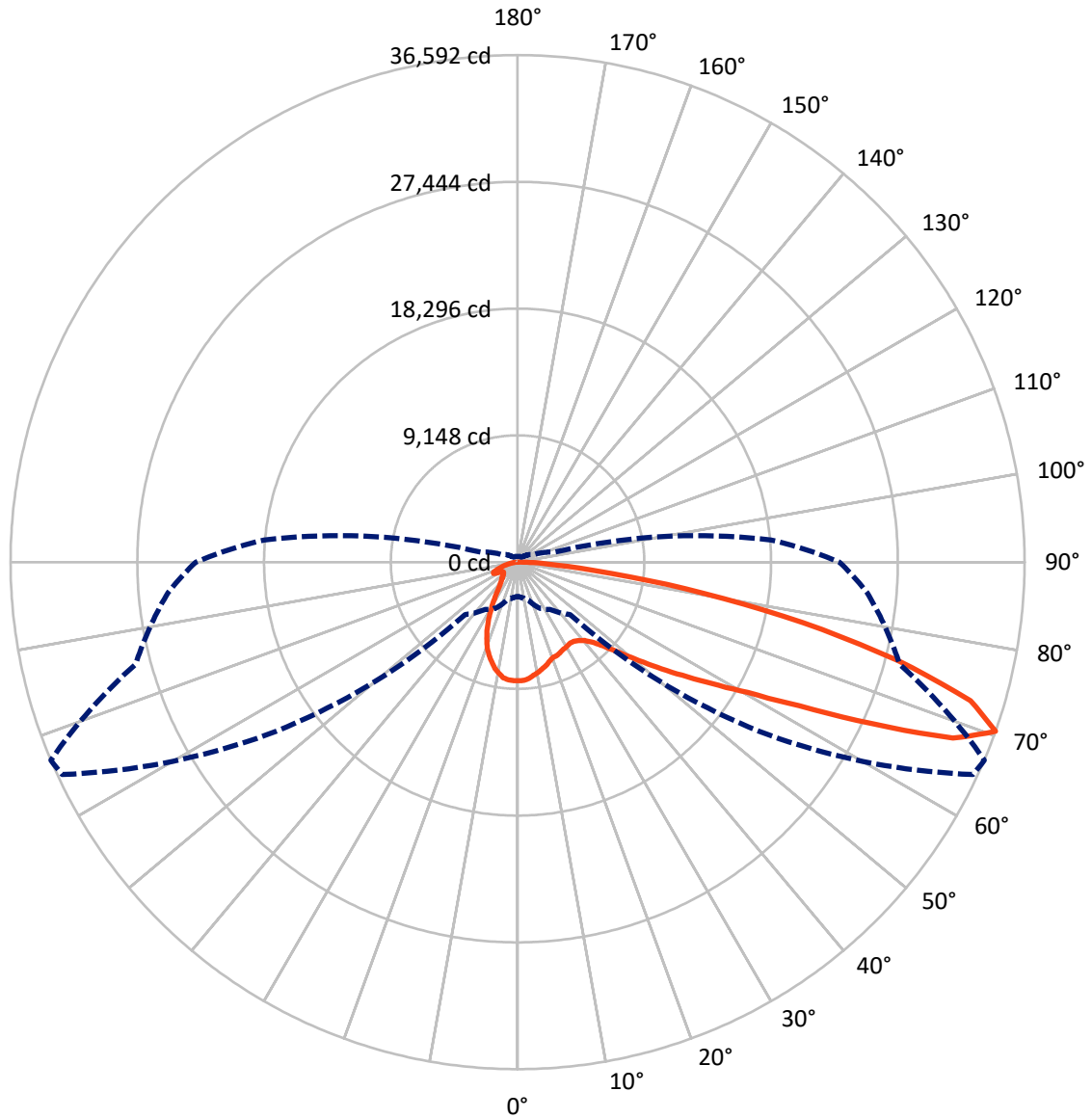
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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	7191.4	0.0	7191.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	29733.3	0.0	29733.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	36924.7	0.0	36924.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.8	2.0
10°-20°	1786.2	4.8
20°-30°	2412.2	6.5
30°-40°	3227.7	8.7
40°-50°	4746.3	12.9
50°-60°	7398.2	20.0
60°-70°	9113.4	24.7
70°-80°	6439.4	17.4
80°-90°	1055.5	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°	36924.7	100.0
0°-180°	36924.7	100.0

Coefficient of Utilization

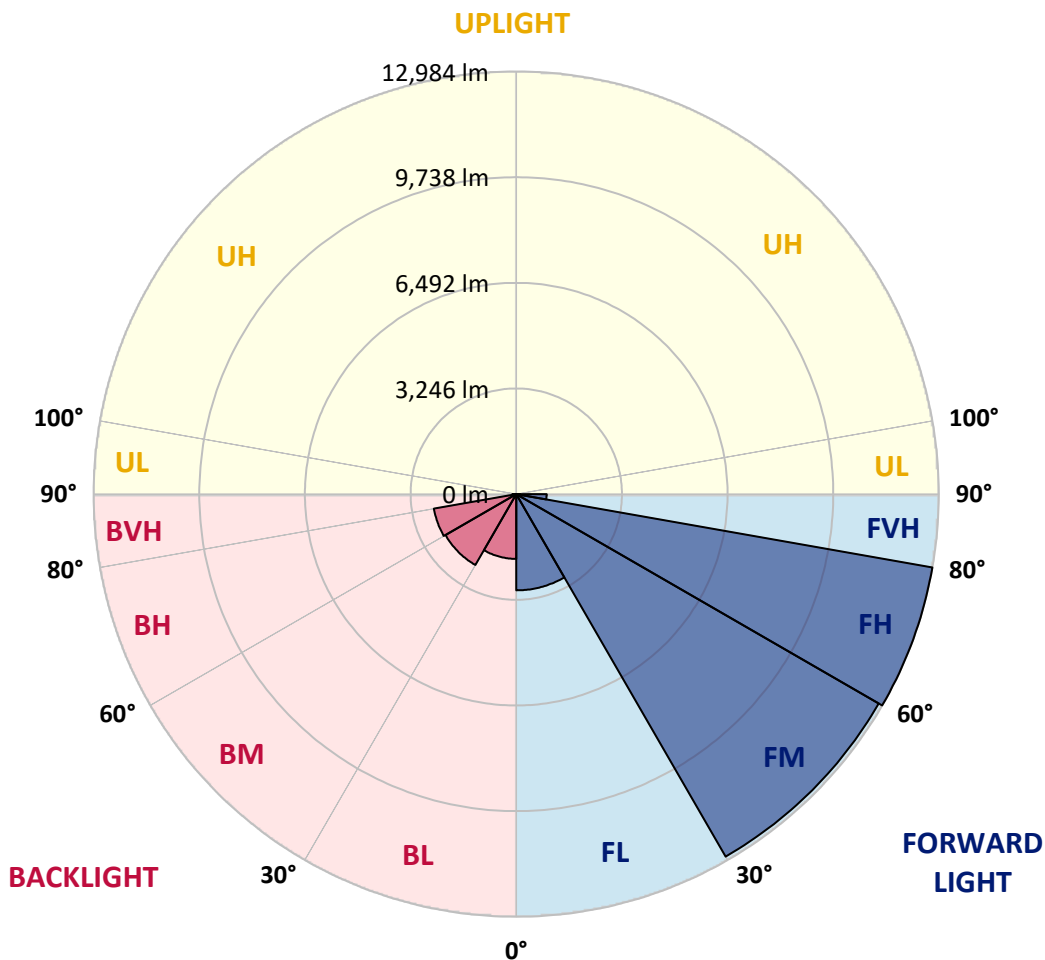


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2955.5	8.0			
FM (30°-60°)	12860.1	34.8			
FH (60°-80°)	12984.0	35.2			G5
FVH (80°-90°)	933.7	2.5			G5
BL (0°-30°)	1988.7	5.4	B3/2500		
BM (30°-60°)	2512.1	6.8	B3/5000		
BH (60°-80°)	2568.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	121.8	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°	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0
2.5°	7959.3	8049.2	8081.9	8131.0	8257.7	8351.7	8409.0	8474.4	8552.0	8617.5	8658.3
5°	7403.3	7452.4	7530.0	7583.2	7742.6	7996.1	8167.8	8445.8	8437.6	8539.8	8695.1
7.5°	6863.7	6912.8	6949.6	7055.8	7284.8	7513.7	7828.5	8278.1	8245.4	8482.5	8723.7
10°	6528.5	6491.7	6504.0	6683.8	6863.7	7121.3	7517.8	7975.6	8094.2	8462.1	8805.5
12.5°	6213.7	6172.8	6271.0	6385.4	6606.2	6839.2	7313.4	7726.3	7906.1	8388.5	8842.3
15°	6017.5	5988.9	6111.5	6160.6	6422.2	6700.2	7035.4	7538.2	7734.4	8298.6	8785.1
17.5°	5907.1	5931.7	5976.6	6082.9	6250.5	6487.6	6855.5	7411.5	7497.3	8188.2	8772.8
20°	5927.6	5956.2	5960.3	6005.2	6119.7	6303.7	6679.8	7276.6	7333.8	8167.8	8805.5
22.5°	6091.1	6050.2	6066.6	6037.9	6070.6	6213.7	6544.8	7096.7	7317.5	7996.1	8736.0
25°	6336.4	6279.1	6271.0	6172.8	6111.5	6152.4	6520.3	7051.8	7194.8	7942.9	8731.9
27.5°	6769.7	6683.8	6683.8	6536.7	6287.3	6221.9	6450.8	6978.2	7104.9	7893.9	8637.9
30°	7186.7	7186.7	7190.7	6982.3	6704.3	6381.3	6479.4	6949.6	7031.3	7746.7	8511.2
32.5°	7693.6	7681.3	7660.9	7558.7	7129.4	6647.0	6618.4	6912.8	6953.6	7697.7	8474.4
35°	8188.2	8155.5	8314.9	8225.0	7787.6	7166.2	6761.5	6929.1	7019.1	7624.1	8359.9
37.5°	8560.2	8580.7	8911.8	8969.0	8592.9	7754.9	7166.2	7092.6	7178.5	7730.4	8359.9
40°	9042.6	9124.4	9435.0	9627.2	9398.3	8531.6	7808.0	7366.5	7427.8	7967.5	8539.8
42.5°	9676.2	9745.7	10142.3	10391.6	10326.2	9520.9	8441.7	7938.8	7889.8	8364.0	8809.6
45°	10514.3	10526.5	10927.2	11270.5	11405.4	10555.2	9447.3	8662.4	8621.5	9046.7	9304.2
47.5°	11511.7	11499.5	11748.8	12116.8	12480.6	11789.7	10604.2	9762.1	9614.9	10023.7	10125.9
50°	12476.5	12423.4	12480.6	12950.7	13649.7	13335.0	12010.5	11107.0	10959.9	11184.7	11360.5
52.5°	13007.9	13073.3	12918.0	13539.4	14892.5	15162.3	13874.6	12713.6	12586.9	12697.2	13003.8
55°	12635.9	12770.8	12668.6	13257.3	15436.2	17390.2	16286.5	14573.6	14410.1	14369.2	14872.1
57.5°	11053.9	11299.2	11319.6	12251.7	15248.1	19115.4	19679.5	16768.9	16523.6	16106.6	16625.8
60°	8486.6	8731.9	8920.0	10023.7	13637.5	20145.5	23612.1	19892.1	19082.7	18003.4	18314.1
62.5°	5948.0	6115.6	6303.7	6982.3	10514.3	19540.5	27013.3	24290.7	22798.6	20002.5	20390.8
65°	4333.3	4464.1	4656.2	5056.8	6459.0	16167.9	28591.3	29515.2	28100.7	22545.2	22496.1
67.5°	3262.2	3344.0	3597.4	4239.2	4476.3	9986.9	26956.1	35033.9	33889.3	25370.0	24188.5
70°	2469.1	2538.6	2775.7	3654.6	4182.0	5355.2	21265.6	36264.4	36591.5	28538.2	25325.0
72.5°	1700.6	1778.3	2044.0	3045.5	3981.7	4247.4	13347.2	32945.0	34183.6	29842.2	24106.8
75°	1042.4	1095.6	1250.9	2309.7	3953.1	4153.4	7346.1	26997.0	28309.2	27573.4	21089.9
77.5°	735.8	731.7	760.4	1353.1	3425.7	4177.9	4529.5	19781.7	21057.2	20321.3	14312.0
80°	535.5	539.6	568.2	809.4	2326.1	4247.4	3568.8	13249.1	13629.3	10596.0	5645.5
82.5°	322.9	339.3	408.8	547.8	1398.1	3834.5	3299.0	7362.4	6888.2	3401.2	1553.4
85°	171.7	171.7	241.2	347.5	744.0	2861.6	3176.4	3503.4	2935.2	1054.7	576.4
87.5°	40.9	40.9	69.5	139.0	298.4	1369.5	2166.6	1394.0	1116.0	355.7	237.1
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°	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0	8548.0
2.5°	8642.0	8592.9	8654.2	8531.6	8433.5	8437.6	8286.3	8278.1	8257.7	8151.4	8188.2
5°	8740.1	8699.2	8629.7	8494.8	8278.1	8061.5	7930.7	7763.1	7693.6	7656.8	7673.1
7.5°	8834.1	8760.5	8560.2	8372.2	8037.0	7628.2	7391.1	7166.2	6880.1	6847.4	6790.1
10°	8858.6	8703.3	8445.8	8045.1	7599.5	7145.8	6606.2	6189.2	5968.4	5796.7	5731.3
12.5°	8821.8	8756.4	8261.8	7746.7	7072.2	6360.9	5731.3	5142.7	4733.9	4521.3	4464.1
15°	8817.8	8703.3	8057.4	7292.9	6430.4	5502.4	4607.1	3899.9	3470.7	3294.9	3294.9
17.5°	8821.8	8548.0	7816.2	6835.1	5674.1	4419.1	3433.9	2853.4	2616.3	2591.8	2612.2
20°	8740.1	8433.5	7562.8	6295.5	4725.7	3319.4	2493.7	2256.6	2256.6	2289.3	2301.5
22.5°	8666.5	8261.8	7162.1	5629.1	3760.9	2403.7	2027.6	1958.1	2035.8	2093.0	2117.6
25°	8564.3	8118.7	6753.3	4938.3	2861.6	1937.7	1761.9	1778.3	1851.9	1954.1	1945.9
27.5°	8417.1	7869.4	6266.9	4137.0	2129.8	1672.0	1627.0	1635.2	1712.9	1757.8	1749.7
30°	8249.5	7615.9	5817.2	3339.9	1688.3	1533.0	1528.9	1549.3	1561.6	1586.1	1582.0
32.5°	8037.0	7280.7	5338.9	2595.9	1520.7	1455.3	1439.0	1426.7	1439.0	1434.9	1422.6
35°	7885.7	7100.8	4852.4	1978.6	1426.7	1385.8	1373.6	1353.1	1336.8	1312.2	1308.2
37.5°	7844.8	6920.9	4341.4	1614.7	1353.1	1332.7	1291.8	1255.0	1234.6	1222.3	1214.1
40°	7820.3	6802.4	3842.7	1418.5	1291.8	1271.4	1222.3	1173.2	1152.8	1140.5	1144.6
42.5°	7906.1	6737.0	3335.8	1320.4	1238.7	1201.9	1148.7	1091.5	1087.4	1079.2	1091.5
45°	8208.7	6818.7	2865.7	1250.9	1185.5	1124.2	1054.7	1026.1	1022.0	1013.8	1022.0
47.5°	8895.4	7023.1	2465.0	1206.0	1128.3	1075.1	1001.6	960.7	956.6	952.5	952.5
50°	9843.8	7652.7	2129.8	1152.8	1091.5	1017.9	948.4	903.4	895.3	878.9	878.9
52.5°	11331.9	8711.5	1929.5	1124.2	1026.1	964.8	891.2	842.1	821.7	805.3	805.3
55°	13007.9	10023.7	1892.7	1075.1	956.6	899.4	833.9	784.9	764.5	744.0	735.8
57.5°	14917.0	11761.1	2154.4	1042.4	907.5	833.9	760.4	715.4	699.0	678.6	670.4
60°	16695.3	13494.4	2967.9	993.4	862.6	772.6	699.0	654.1	633.6	613.2	613.2
62.5°	18751.5	15640.6	4345.5	993.4	821.7	707.2	633.6	600.9	588.7	568.2	564.1
65°	21183.9	17860.4	5351.2	1054.7	809.4	650.0	572.3	539.6	527.3	515.1	511.0
67.5°	23035.7	19135.8	4603.1	1218.2	862.6	600.9	511.0	490.6	482.4	470.1	461.9
70°	23232.0	18359.1	2775.7	1316.3	915.7	551.9	457.9	437.4	437.4	425.1	417.0
72.5°	21470.0	16290.6	1868.2	1173.2	829.9	494.6	404.7	388.4	380.2	372.0	367.9
75°	17966.6	13817.4	1475.8	936.1	637.7	408.8	351.6	335.2	322.9	318.9	310.7
77.5°	12067.7	8981.3	1091.5	731.7	470.1	331.1	294.3	278.0	265.7	261.6	249.4
80°	4635.8	3421.6	703.1	531.4	331.1	261.6	233.0	216.7	208.5	196.2	188.0
82.5°	1365.4	1107.8	392.4	327.0	212.6	179.9	167.6	155.3	143.1	130.8	126.7
85°	564.1	506.9	241.2	171.7	130.8	106.3	98.1	85.8	73.6	65.4	57.2
87.5°	261.6	216.7	110.4	65.4	45.0	24.5	12.3	4.1	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)