

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: P480176

Luminaire Tested: **IFLD-L-SA8B-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480176
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

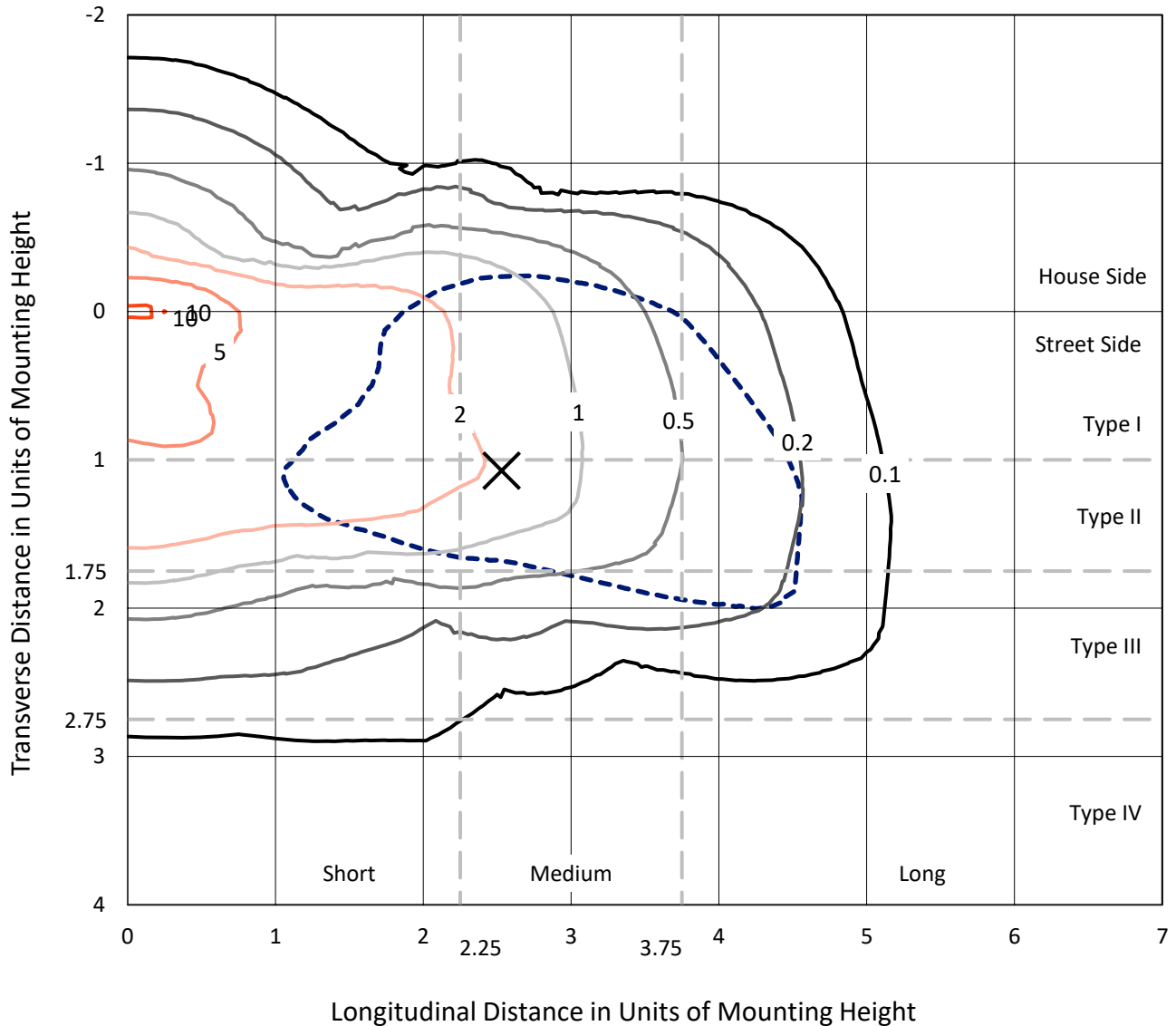
Lumens per Lamp: N/A
Luminaire Lumens: 41508.2 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 320
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

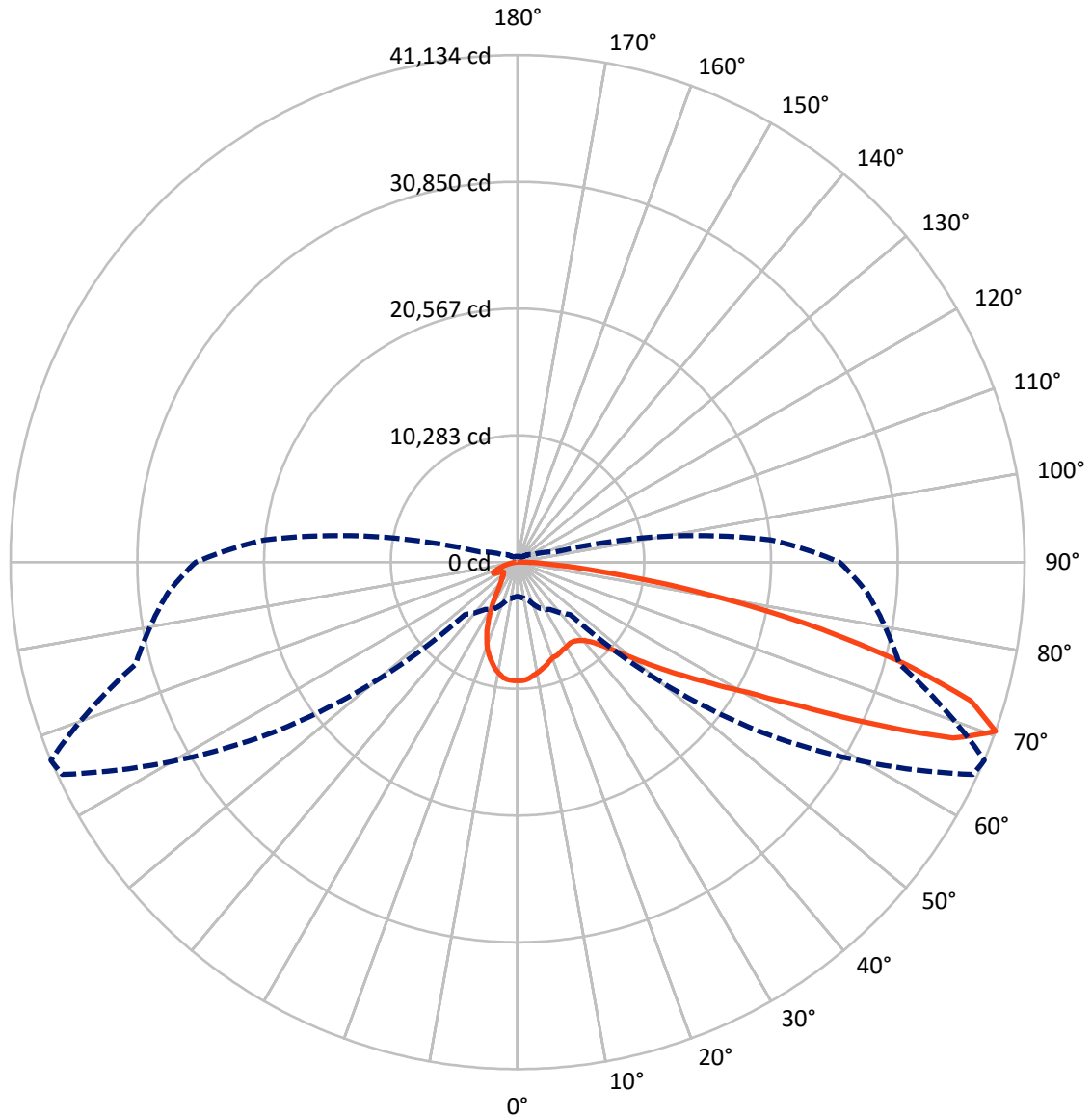
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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	8084.1	0.0	8084.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	33424.1	0.0	33424.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	41508.2	0.0	41508.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.4	2.0
10°-20°	2008.0	4.8
20°-30°	2711.6	6.5
30°-40°	3628.4	8.7
40°-50°	5335.4	12.9
50°-60°	8316.6	20.0
60°-70°	10244.6	24.7
70°-80°	7238.8	17.4
80°-90°	1186.5	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°	41508.2	100.0
0°-180°	41508.2	100.0

Coefficient of Utilization



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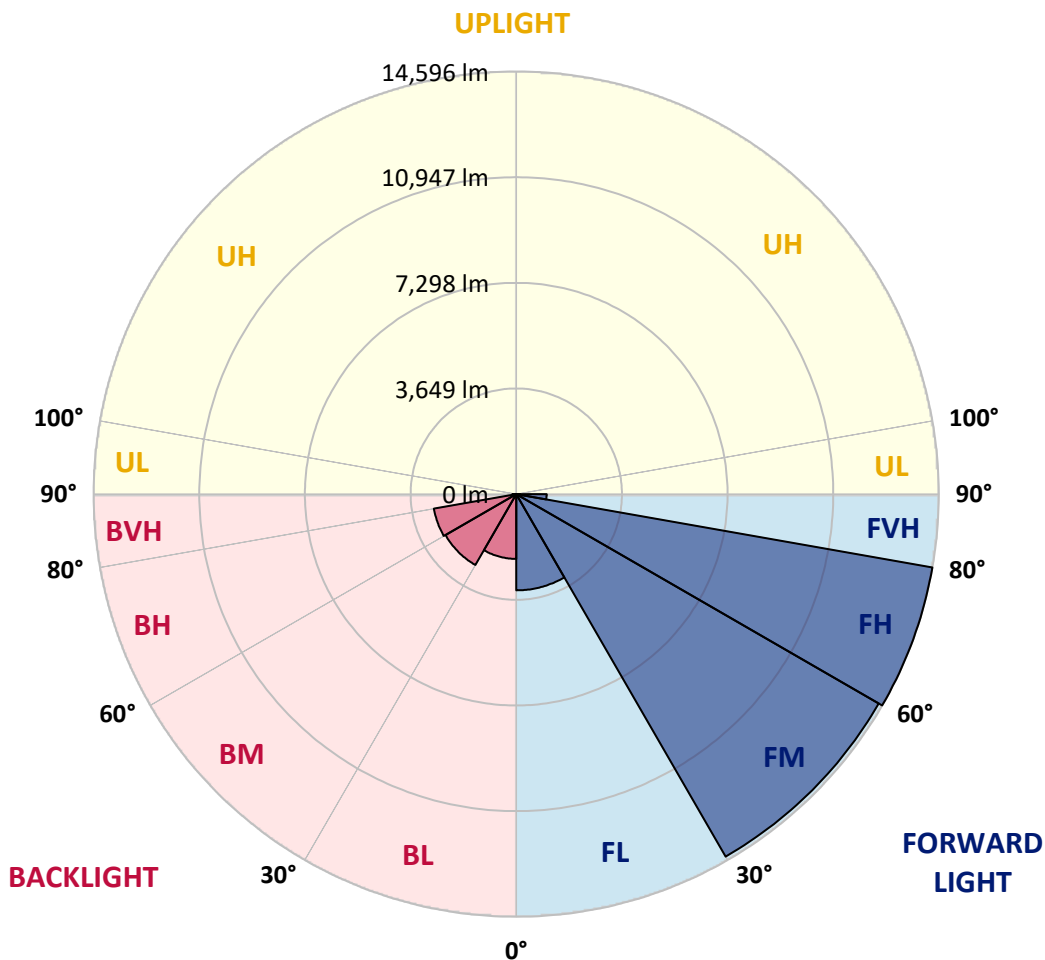
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3322.4	8.0			
FM (30°-60°)	14456.4	34.8			
FH (60°-80°)	14595.7	35.2			G5
FVH (80°-90°)	1049.6	2.5			G5
BL (0°-30°)	2235.5	5.4	B3/2500		
BM (30°-60°)	2824.0	6.8	B3/5000		
BH (60°-80°)	2887.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	136.9	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°	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0
2.5°	8947.3	9048.4	9085.1	9140.3	9282.7	9388.4	9452.8	9526.3	9613.6	9687.1	9733.1
5°	8322.3	8377.4	8464.8	8524.5	8703.7	8988.6	9181.6	9494.1	9484.9	9599.8	9774.5
7.5°	7715.7	7770.8	7812.2	7931.7	8189.0	8446.4	8800.2	9305.7	9269.0	9535.5	9806.6
10°	7338.9	7297.5	7311.3	7513.5	7715.7	8005.2	8451.0	8965.7	9098.9	9512.5	9898.5
12.5°	6985.0	6939.1	7049.4	7178.0	7426.2	7688.1	8221.2	8685.3	8887.5	9429.8	9939.9
15°	6764.5	6732.3	6870.1	6925.3	7219.4	7531.9	7908.7	8473.9	8694.5	9328.7	9875.6
17.5°	6640.4	6667.9	6718.5	6838.0	7026.4	7292.9	7706.5	8331.5	8428.0	9204.6	9861.8
20°	6663.4	6695.5	6700.1	6750.7	6879.3	7086.1	7508.9	8179.8	8244.2	9181.6	9898.5
22.5°	6847.2	6801.2	6819.6	6787.4	6824.2	6985.0	7357.3	7977.6	8225.8	8988.6	9820.4
25°	7122.9	7058.6	7049.4	6939.1	6870.1	6916.1	7329.7	7927.1	8087.9	8928.9	9815.8
27.5°	7610.0	7513.5	7513.5	7348.1	7067.8	6994.2	7251.6	7844.4	7986.8	8873.7	9710.1
30°	8078.7	8078.7	8083.3	7849.0	7536.5	7173.4	7283.7	7812.2	7904.1	8708.3	9567.7
32.5°	8648.6	8634.8	8611.8	8496.9	8014.4	7472.1	7440.0	7770.8	7816.8	8653.2	9526.3
35°	9204.6	9167.9	9347.1	9246.0	8754.3	8055.8	7600.8	7789.2	7890.3	8570.5	9397.6
37.5°	9622.8	9645.8	10018.0	10082.3	9659.6	8717.5	8055.8	7973.0	8069.6	8689.9	9397.6
40°	10165.1	10257.0	10606.2	10822.2	10564.9	9590.6	8777.2	8280.9	8349.9	8956.5	9599.8
42.5°	10877.4	10955.5	11401.2	11681.5	11608.0	10702.7	9489.5	8924.3	8869.2	9402.2	9903.1
45°	11819.4	11833.2	12283.5	12669.6	12821.2	11865.4	10620.0	9737.7	9691.7	10169.7	10459.2
47.5°	12940.7	12926.9	13207.2	13620.8	14029.8	13253.2	11920.5	10973.9	10808.4	11268.0	11382.8
50°	14025.2	13965.5	14029.8	14558.3	15344.1	14990.2	13501.3	12485.7	12320.3	12573.1	12770.7
52.5°	14622.6	14696.1	14521.5	15220.0	16741.1	17044.4	15596.8	14291.7	14149.3	14273.4	14618.0
55°	14204.4	14356.1	14241.2	14902.9	17352.3	19548.9	18308.1	16382.7	16198.8	16152.9	16718.1
57.5°	12426.0	12701.7	12724.7	13772.5	17140.9	21488.2	22122.3	18850.4	18574.7	18105.9	18689.6
60°	9540.1	9815.8	10027.2	11268.0	15330.3	22646.2	26543.1	22361.3	21451.4	20238.2	20587.5
62.5°	6686.3	6874.7	7086.1	7849.0	11819.4	21966.1	30366.5	27306.0	25628.6	22485.4	22921.9
65°	4871.1	5018.2	5234.2	5684.5	7260.8	18174.9	32140.3	33178.9	31588.9	25343.7	25288.6
67.5°	3667.1	3759.1	4044.0	4765.4	5032.0	11226.6	30302.2	39382.7	38096.0	28519.2	27191.1
70°	2775.6	2853.8	3120.3	4108.3	4701.1	6020.0	23905.4	40765.9	41133.6	32080.6	28468.6
72.5°	1911.7	1999.0	2297.7	3423.6	4475.9	4774.6	15004.0	37034.5	38426.9	33546.5	27099.2
75°	1171.8	1231.6	1406.2	2596.4	4443.8	4668.9	8258.0	30348.1	31823.3	30996.1	23707.8
77.5°	827.2	822.6	854.7	1521.1	3851.0	4696.5	5091.7	22237.2	23671.0	22843.8	16088.6
80°	602.0	606.6	638.8	909.9	2614.8	4774.6	4011.8	14893.7	15321.1	11911.3	6346.3
82.5°	363.0	381.4	459.5	615.8	1571.6	4310.5	3708.5	8276.3	7743.3	3823.4	1746.3
85°	193.0	193.0	271.1	390.6	836.4	3216.8	3570.6	3938.3	3299.5	1185.6	648.0
87.5°	46.0	46.0	78.1	156.2	335.5	1539.5	2435.6	1567.0	1254.5	399.8	266.5
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°	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0	9609.0
2.5°	9714.7	9659.6	9728.5	9590.6	9480.3	9484.9	9314.9	9305.7	9282.7	9163.3	9204.6
5°	9825.0	9779.0	9700.9	9549.3	9305.7	9062.2	8915.1	8726.7	8648.6	8607.2	8625.6
7.5°	9930.7	9848.0	9622.8	9411.4	9034.6	8575.0	8308.5	8055.8	7734.1	7697.3	7633.0
10°	9958.3	9783.6	9494.1	9043.8	8542.9	8032.8	7426.2	6957.5	6709.3	6516.3	6442.8
12.5°	9916.9	9843.4	9287.3	8708.3	7950.1	7150.5	6442.8	5781.0	5321.5	5082.5	5018.2
15°	9912.3	9783.6	9057.6	8198.2	7228.6	6185.4	5179.0	4384.0	3901.5	3703.9	3703.9
17.5°	9916.9	9609.0	8786.4	7683.5	6378.4	4967.6	3860.2	3207.6	2941.1	2913.5	2936.5
20°	9825.0	9480.3	8501.5	7076.9	5312.3	3731.5	2803.2	2536.7	2536.7	2573.4	2587.2
22.5°	9742.3	9287.3	8051.2	6327.9	4227.8	2702.1	2279.3	2201.2	2288.5	2352.9	2380.4
25°	9627.4	9126.5	7591.6	5551.3	3216.8	2178.2	1980.6	1999.0	2081.7	2196.6	2187.4
27.5°	9462.0	8846.2	7044.8	4650.6	2394.2	1879.5	1829.0	1838.2	1925.5	1976.0	1966.8
30°	9273.6	8561.3	6539.3	3754.5	1897.9	1723.3	1718.7	1741.7	1755.4	1783.0	1778.4
32.5°	9034.6	8184.4	6001.6	2918.1	1709.5	1636.0	1617.6	1603.8	1617.6	1613.0	1599.2
35°	8864.6	7982.2	5454.8	2224.2	1603.8	1557.8	1544.1	1521.1	1502.7	1475.1	1470.5
37.5°	8818.6	7780.0	4880.3	1815.2	1521.1	1498.1	1452.2	1410.8	1387.8	1374.0	1364.8
40°	8791.0	7646.8	4319.7	1594.6	1452.2	1429.2	1374.0	1318.9	1295.9	1282.1	1286.7
42.5°	8887.5	7573.2	3749.9	1484.3	1392.4	1351.1	1291.3	1227.0	1222.4	1213.2	1227.0
45°	9227.6	7665.2	3221.4	1406.2	1332.7	1263.7	1185.6	1153.4	1148.9	1139.7	1148.9
47.5°	9999.6	7894.9	2771.0	1355.6	1268.3	1208.6	1125.9	1079.9	1075.3	1070.7	1070.7
50°	11065.8	8602.6	2394.2	1295.9	1227.0	1144.3	1066.1	1015.6	1006.4	988.0	988.0
52.5°	12738.5	9792.8	2169.0	1263.7	1153.4	1084.5	1001.8	946.7	923.7	905.3	905.3
55°	14622.6	11268.0	2127.7	1208.6	1075.3	1011.0	937.5	882.3	859.3	836.4	827.2
57.5°	16768.7	13221.0	2421.8	1171.8	1020.2	937.5	854.7	804.2	785.8	762.8	753.6
60°	18767.7	15169.5	3336.3	1116.7	969.6	868.5	785.8	735.3	712.3	689.3	689.3
62.5°	21079.2	17582.1	4884.9	1116.7	923.7	795.0	712.3	675.5	661.7	638.8	634.2
65°	23813.5	20077.4	6015.4	1185.6	909.9	730.7	643.4	606.6	592.8	579.0	574.4
67.5°	25895.2	21511.1	5174.4	1369.4	969.6	675.5	574.4	551.5	542.3	528.5	519.3
70°	26115.8	20638.0	3120.3	1479.7	1029.4	620.4	514.7	491.7	491.7	477.9	468.7
72.5°	24135.1	18312.7	2100.1	1318.9	932.9	556.0	454.9	436.6	427.4	418.2	413.6
75°	20196.9	15532.5	1658.9	1052.4	716.9	459.5	395.2	376.8	363.0	358.4	349.3
77.5°	13565.7	10096.1	1227.0	822.6	528.5	372.2	330.9	312.5	298.7	294.1	280.3
80°	5211.2	3846.4	790.4	597.4	372.2	294.1	261.9	243.6	234.4	220.6	211.4
82.5°	1534.9	1245.4	441.2	367.6	239.0	202.2	188.4	174.6	160.8	147.1	142.5
85°	634.2	569.8	271.1	193.0	147.1	119.5	110.3	96.5	82.7	73.5	64.3
87.5°	294.1	243.6	124.1	73.5	50.5	27.6	13.8	4.6	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)