

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: P480091

Luminaire Tested: **IFLD-M-SA4E-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480091
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

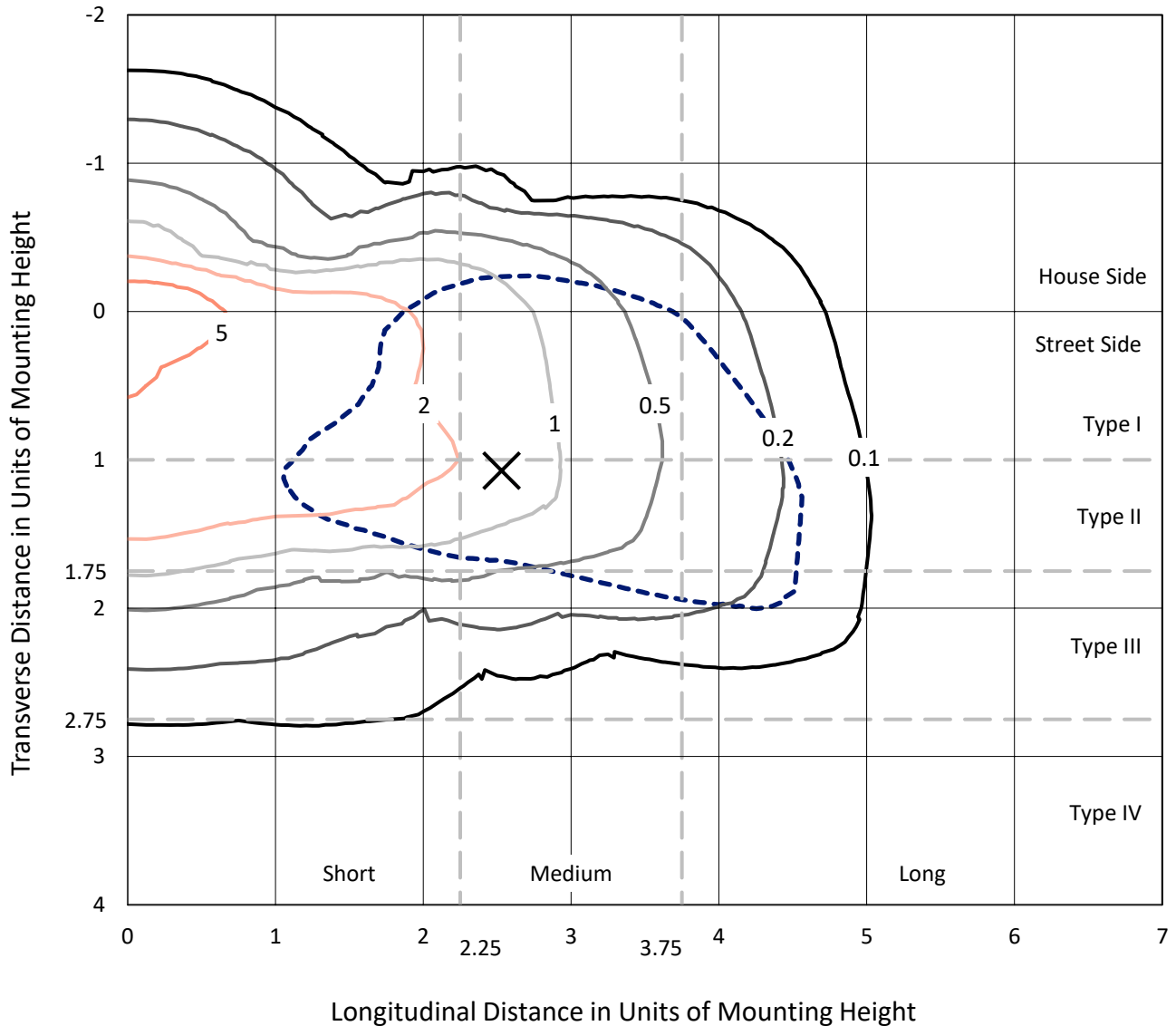
Lumens per Lamp: N/A
Luminaire Lumens: 35603.5 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

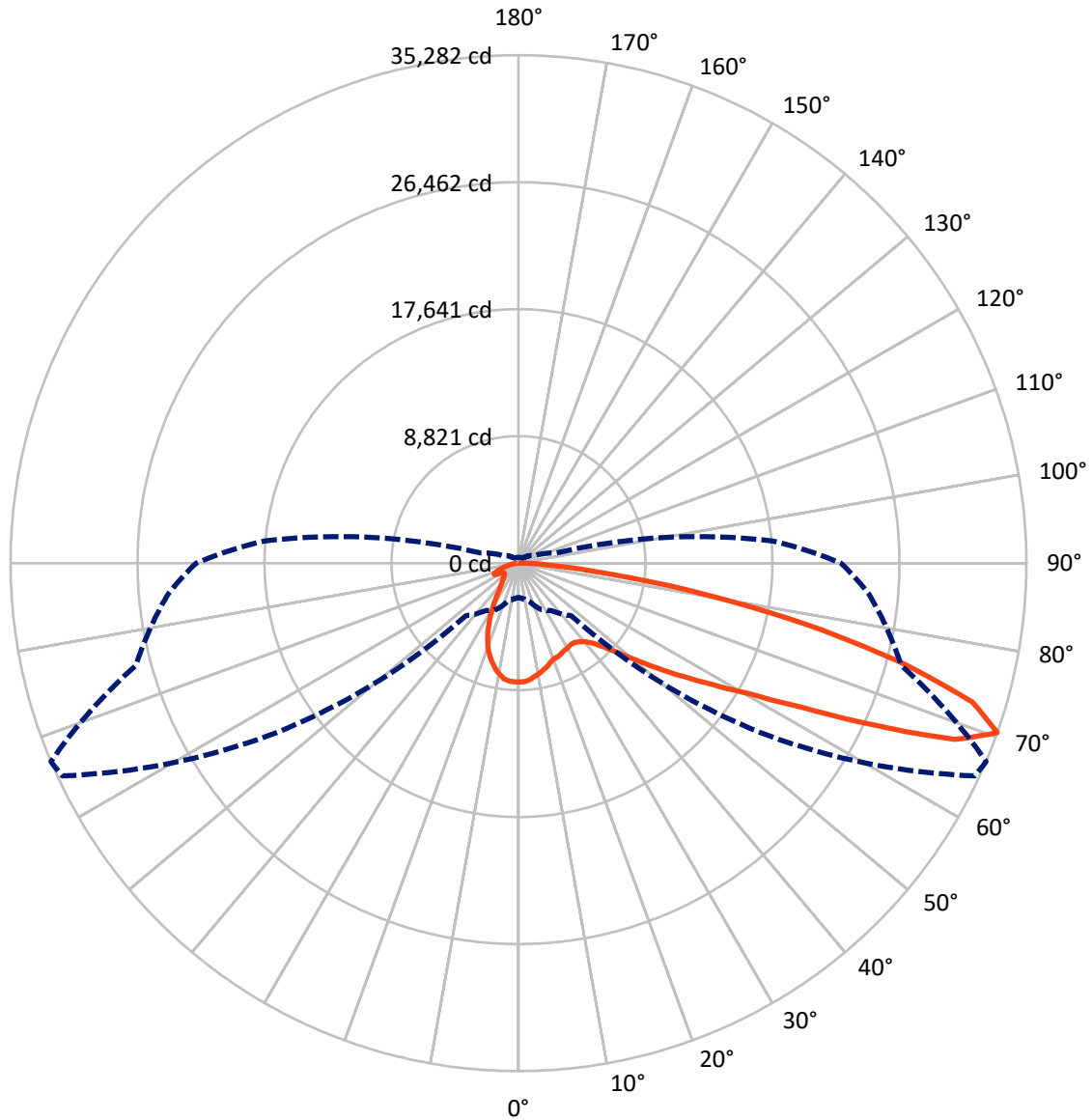
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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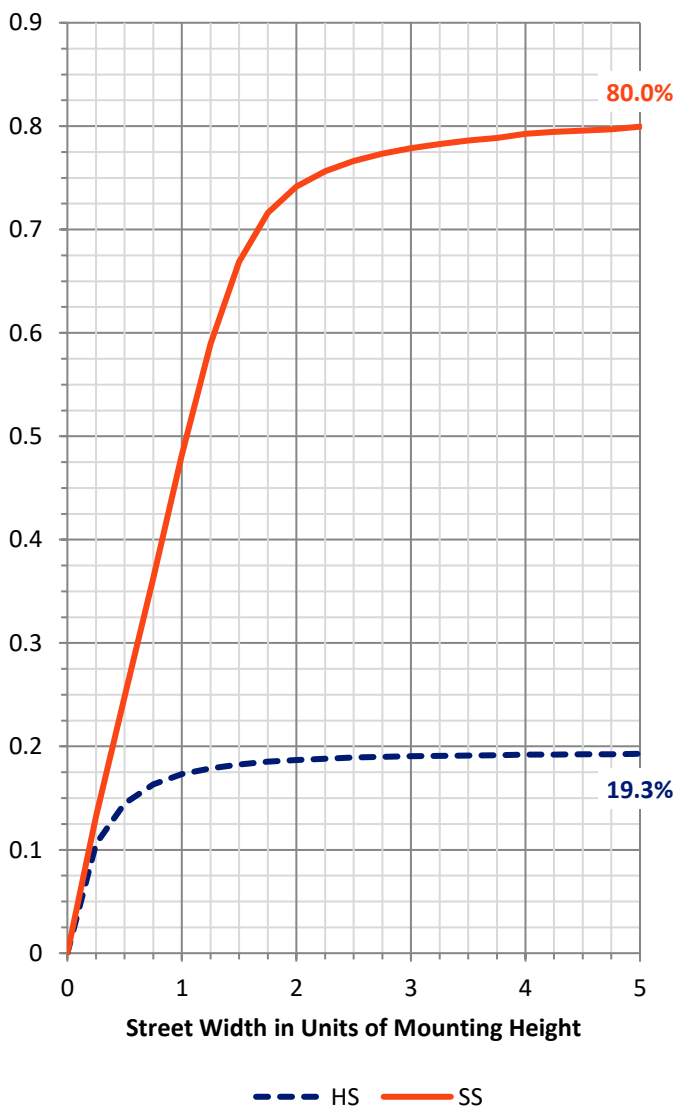
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6934.1	0.0	6934.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	28669.4	0.0	28669.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	35603.5	0.0	35603.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.1	2.0
10°-20°	1722.3	4.8
20°-30°	2325.9	6.5
30°-40°	3112.2	8.7
40°-50°	4576.4	12.9
50°-60°	7133.5	20.0
60°-70°	8787.3	24.7
70°-80°	6209.0	17.4
80°-90°	1017.7	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°	35603.5	100.0
0°-180°	35603.5	100.0

Coefficient of Utilization



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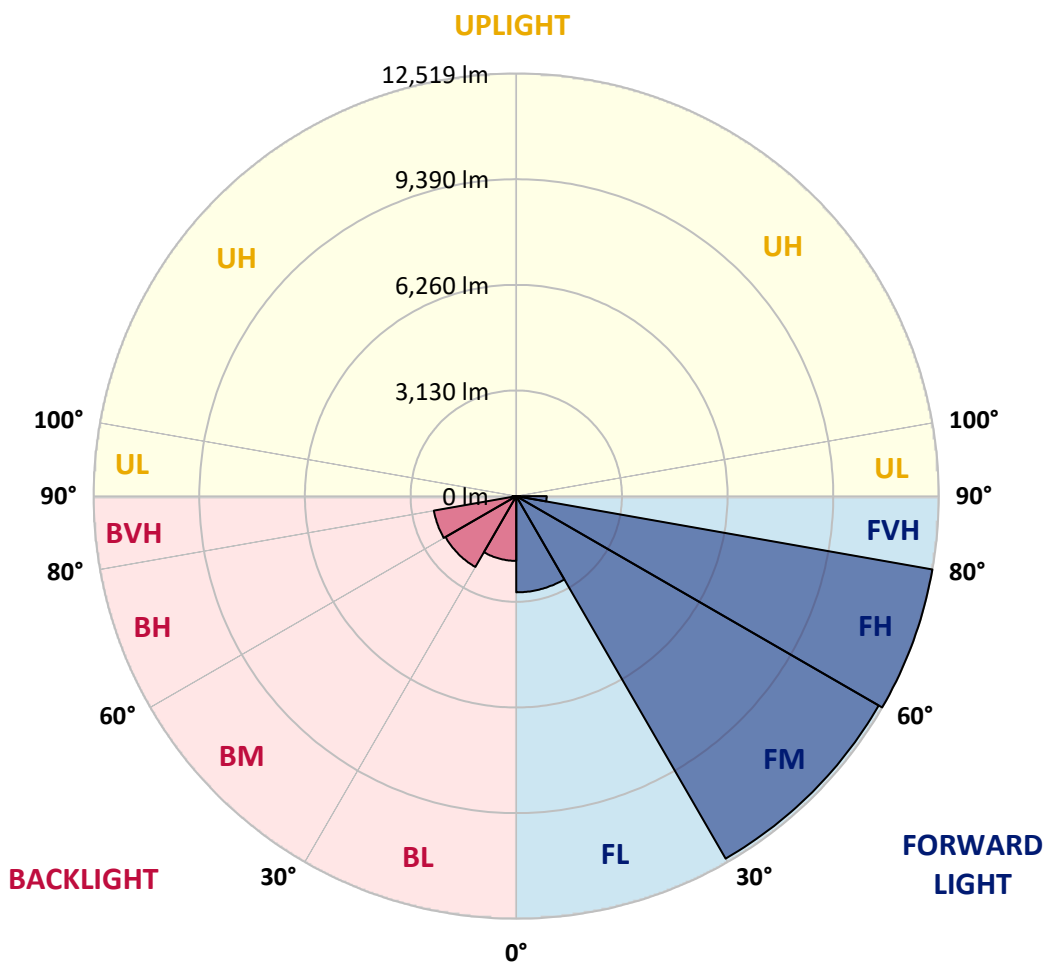
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2849.8	8.0			
FM	(30°-60°)	12399.9	34.8			
FH	(60°-80°)	12519.4	35.2			G5
FVH	(80°-90°)	900.3	2.5			G5
BL	(0°-30°)	1917.5	5.4	B3/2500		
BM	(30°-60°)	2422.2	6.8	B2/2500		
BH	(60°-80°)	2477.0	7.0	B3/2500		G3/2500
BVH	(80°-90°)	117.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1
2.5°	7674.5	7761.2	7792.7	7840.0	7962.2	8052.9	8108.1	8171.2	8246.0	8309.1	8348.5
5°	7138.4	7185.7	7260.6	7311.9	7465.6	7710.0	7875.5	8143.6	8135.7	8234.2	8384.0
7.5°	6618.1	6665.4	6700.9	6803.4	7024.1	7244.9	7548.4	7982.0	7950.4	8179.0	8411.6
10°	6294.9	6259.4	6271.3	6444.7	6618.1	6866.4	7248.8	7690.3	7804.6	8159.3	8490.4
12.5°	5991.4	5952.0	6046.6	6156.9	6369.8	6594.5	7051.7	7449.8	7623.3	8088.4	8525.9
15°	5802.2	5774.6	5892.8	5940.1	6192.4	6460.5	6783.7	7268.5	7457.7	8001.7	8470.7
17.5°	5695.8	5719.4	5762.8	5865.3	6026.9	6255.5	6610.2	7146.3	7229.1	7895.2	8458.9
20°	5715.5	5743.1	5747.0	5790.4	5900.7	6078.1	6440.7	7016.2	7071.4	7875.5	8490.4
22.5°	5873.1	5833.7	5849.5	5821.9	5853.4	5991.4	6310.7	6842.8	7055.7	7710.0	8423.4
25°	6109.6	6054.5	6046.6	5952.0	5892.8	5932.3	6287.0	6799.4	6937.4	7658.7	8419.5
27.5°	6527.5	6444.7	6444.7	6302.8	6062.3	5999.3	6220.0	6728.5	6850.7	7611.4	8328.8
30°	6929.5	6929.5	6933.5	6732.4	6464.4	6153.0	6247.6	6700.9	6779.7	7469.5	8206.6
32.5°	7418.3	7406.5	7386.8	7288.2	6874.3	6409.2	6381.6	6665.4	6704.8	7422.2	8171.2
35°	7895.2	7863.7	8017.4	7930.7	7508.9	6909.8	6519.6	6681.2	6767.9	7351.3	8060.8
37.5°	8253.9	8273.6	8592.9	8648.1	8285.5	7477.4	6909.8	6838.9	6921.6	7453.8	8060.8
40°	8719.0	8797.9	9097.5	9282.7	9062.0	8226.3	7528.7	7103.0	7162.1	7682.4	8234.2
42.5°	9330.0	9397.0	9779.4	10019.8	9956.7	9180.2	8139.6	7654.8	7607.5	8064.7	8494.4
45°	10138.1	10149.9	10536.2	10867.3	10997.4	10177.5	9109.3	8352.5	8313.1	8723.0	8971.3
47.5°	11099.8	11088.0	11328.5	11683.2	12034.0	11367.9	10224.8	9412.8	9270.9	9665.1	9763.6
50°	12030.1	11978.8	12034.0	12487.3	13161.4	12857.8	11580.7	10709.6	10567.7	10784.5	10954.0
52.5°	12542.5	12605.6	12455.8	13054.9	14359.6	14619.8	13378.1	12258.7	12136.5	12242.9	12538.6
55°	12183.8	12313.9	12215.3	12782.9	14883.9	16768.0	15703.7	14052.2	13894.5	13855.1	14339.9
57.5°	10658.4	10894.9	10914.6	11813.3	14702.6	18431.4	18975.4	16168.9	15932.4	15530.3	16030.9
60°	8183.0	8419.5	8600.8	9665.1	13149.5	19424.7	22767.3	19180.3	18399.9	17359.3	17658.8
62.5°	5735.2	5896.8	6078.1	6732.4	10138.1	18841.3	26046.8	23421.6	21982.9	19286.8	19661.2
65°	4178.2	4304.3	4489.6	4875.9	6227.9	15589.4	27568.3	28459.1	27095.3	21738.5	21691.2
67.5°	3145.5	3224.3	3468.7	4087.5	4316.2	9629.6	25991.6	33780.4	32676.7	24462.2	23323.1
70°	2380.8	2447.8	2676.4	3523.9	4032.4	5163.6	20504.7	34966.9	35282.2	27517.0	24418.9
72.5°	1639.7	1714.6	1970.9	2936.6	3839.2	4095.4	12869.7	31766.2	32960.5	28774.4	23244.2
75°	1005.1	1056.4	1206.2	2227.1	3811.6	4004.8	7083.2	26031.0	27296.3	26586.8	20335.3
77.5°	709.5	705.6	733.2	1304.7	3303.1	4028.4	4367.4	19073.9	20303.7	19594.2	13799.9
80°	516.4	520.3	547.9	780.5	2242.8	4095.4	3441.1	12775.1	13141.6	10216.9	5443.5
82.5°	311.4	327.2	394.2	528.2	1348.1	3697.3	3181.0	7099.0	6641.8	3279.5	1497.8
85°	165.6	165.6	232.6	335.0	717.4	2759.2	3062.7	3378.0	2830.1	1017.0	555.8
87.5°	39.4	39.4	67.0	134.0	287.7	1320.5	2089.1	1344.1	1076.1	342.9	228.6
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°	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1	8242.1
2.5°	8332.8	8285.5	8344.6	8226.3	8131.7	8135.7	7989.8	7982.0	7962.2	7859.8	7895.2
5°	8427.4	8387.9	8320.9	8190.9	7982.0	7773.0	7646.9	7485.3	7418.3	7382.8	7398.6
7.5°	8518.0	8447.1	8253.9	8072.6	7749.4	7355.2	7126.6	6909.8	6633.9	6602.4	6547.2
10°	8541.7	8391.9	8143.6	7757.3	7327.6	6890.1	6369.8	5967.7	5754.9	5589.3	5526.3
12.5°	8506.2	8443.1	7966.2	7469.5	6819.1	6133.3	5526.3	4958.7	4564.5	4359.5	4304.3
15°	8502.3	8391.9	7769.1	7032.0	6200.3	5305.5	4442.3	3760.4	3346.5	3177.0	3177.0
17.5°	8506.2	8242.1	7536.5	6590.5	5471.1	4261.0	3311.0	2751.3	2522.7	2499.0	2518.7
20°	8427.4	8131.7	7292.2	6070.2	4556.6	3200.7	2404.4	2175.8	2175.8	2207.4	2219.2
22.5°	8356.4	7966.2	6905.9	5427.7	3626.4	2317.7	1955.1	1888.1	1963.0	2018.2	2041.8
25°	8257.9	7828.2	6511.7	4761.6	2759.2	1868.4	1698.9	1714.6	1785.6	1884.1	1876.3
27.5°	8116.0	7587.8	6042.6	3989.0	2053.6	1612.2	1568.8	1576.7	1651.6	1694.9	1687.0
30°	7954.4	7343.4	5609.0	3220.4	1627.9	1478.1	1474.2	1493.9	1505.7	1529.4	1525.4
32.5°	7749.4	7020.2	5147.9	2503.0	1466.3	1403.2	1387.5	1375.7	1387.5	1383.5	1371.7
35°	7603.5	6846.7	4678.8	1907.8	1375.7	1336.2	1324.4	1304.7	1288.9	1265.3	1261.3
37.5°	7564.1	6673.3	4186.1	1557.0	1304.7	1285.0	1245.6	1210.1	1190.4	1178.6	1170.7
40°	7540.5	6559.0	3705.2	1367.8	1245.6	1225.9	1178.6	1131.3	1111.6	1099.7	1103.7
42.5°	7623.3	6495.9	3216.4	1273.2	1194.3	1158.9	1107.6	1052.4	1048.5	1040.6	1052.4
45°	7914.9	6574.8	2763.1	1206.2	1143.1	1084.0	1017.0	989.4	985.4	977.5	985.4
47.5°	8577.1	6771.8	2376.8	1162.8	1087.9	1036.7	965.7	926.3	922.4	918.4	918.4
50°	9491.6	7378.9	2053.6	1111.6	1052.4	981.5	914.5	871.1	863.2	847.5	847.5
52.5°	10926.4	8399.8	1860.5	1084.0	989.4	930.2	859.3	812.0	792.3	776.5	776.5
55°	12542.5	9665.1	1825.0	1036.7	922.4	867.2	804.1	756.8	737.1	717.4	709.5
57.5°	14383.3	11340.3	2077.3	1005.1	875.1	804.1	733.2	689.8	674.0	654.3	646.4
60°	16097.9	13011.6	2861.7	957.8	831.7	745.0	674.0	630.7	611.0	591.3	591.3
62.5°	18080.6	15081.0	4190.0	957.8	792.3	681.9	611.0	579.4	567.6	547.9	544.0
65°	20425.9	17221.3	5159.7	1017.0	780.5	626.7	551.8	520.3	508.5	496.7	492.7
67.5°	22211.5	18451.1	4438.4	1174.6	831.7	579.4	492.7	473.0	465.1	453.3	445.4
70°	22400.7	17702.2	2676.4	1269.2	882.9	532.1	441.5	421.8	421.8	409.9	402.1
72.5°	20701.8	15707.7	1801.4	1131.3	800.2	476.9	390.2	374.5	366.6	358.7	354.8
75°	17323.8	13323.0	1423.0	902.7	614.9	394.2	339.0	323.2	311.4	307.5	299.6
77.5°	11635.9	8659.9	1052.4	705.6	453.3	319.3	283.8	268.0	256.2	252.3	240.4
80°	4469.9	3299.2	678.0	512.4	319.3	252.3	224.7	208.9	201.0	189.2	181.3
82.5°	1316.5	1068.2	378.4	315.3	205.0	173.4	161.6	149.8	138.0	126.1	122.2
85°	544.0	488.8	232.6	165.6	126.1	102.5	94.6	82.8	71.0	63.1	55.2
87.5°	252.3	208.9	106.4	63.1	43.4	23.7	11.8	3.9	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)