

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: P480566

Luminaire Tested: **IFLD-L-SA8B-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480566
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-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

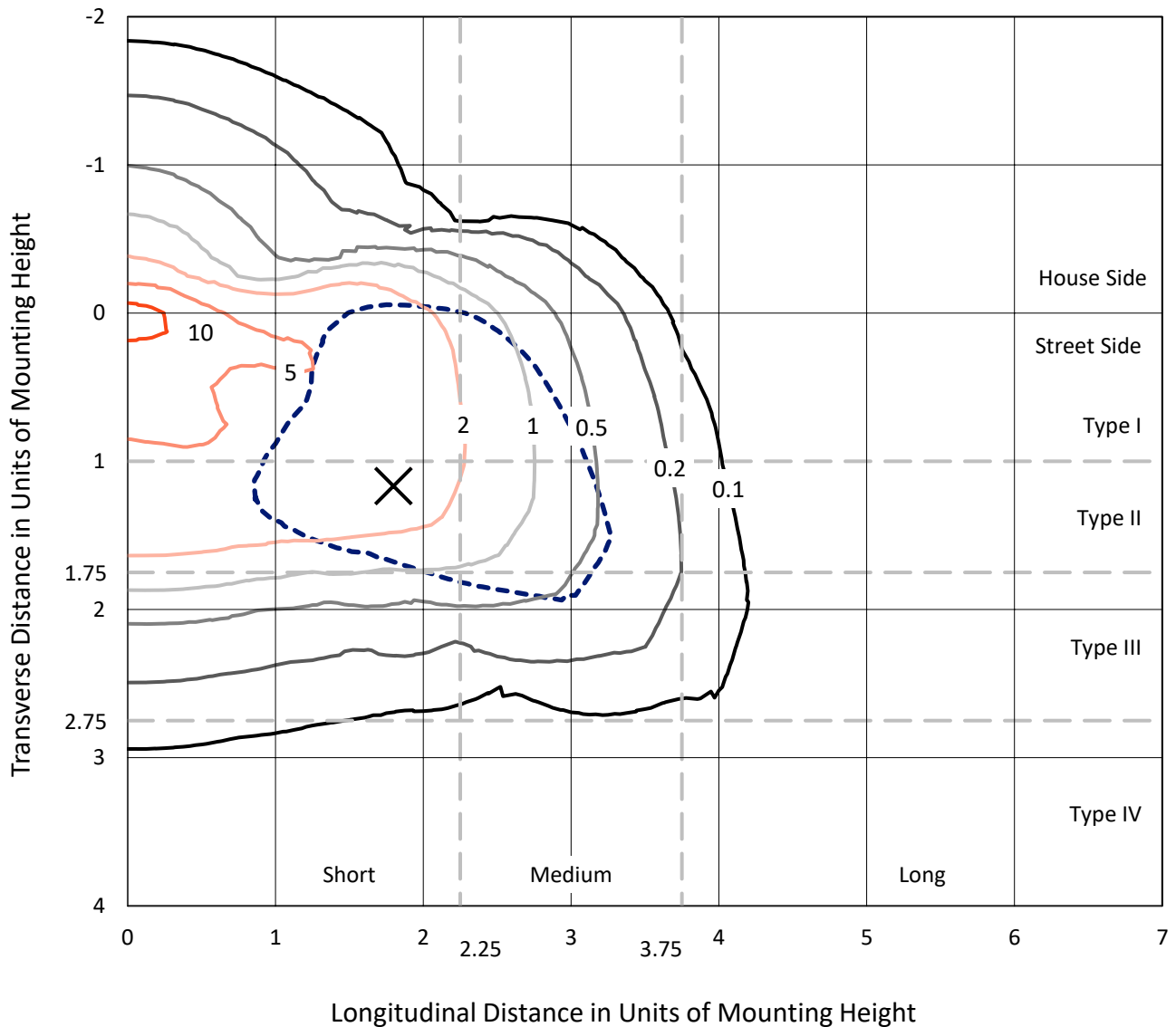
Lumens per Lamp: N/A
Luminaire Lumens: 41078.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

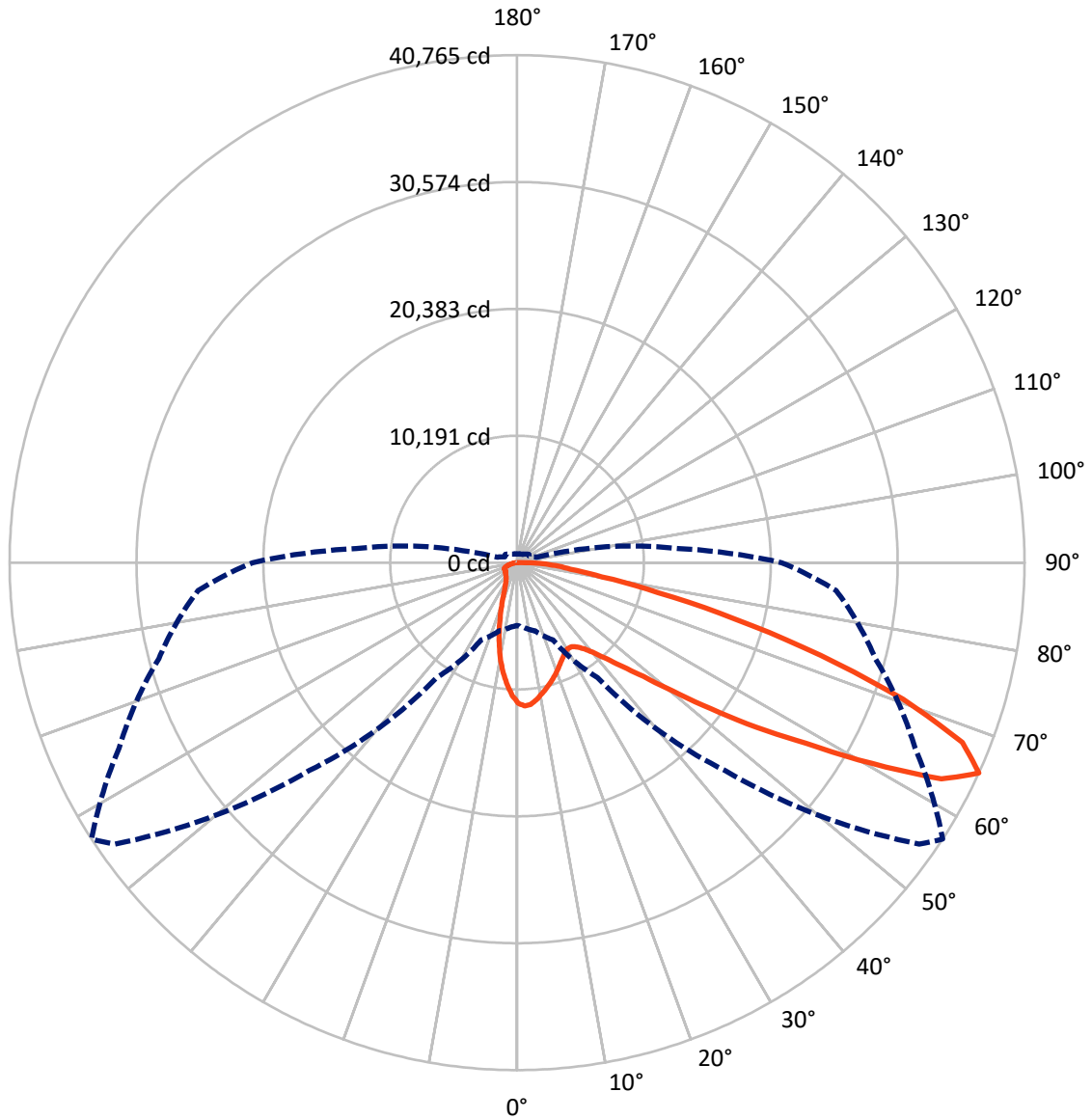
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 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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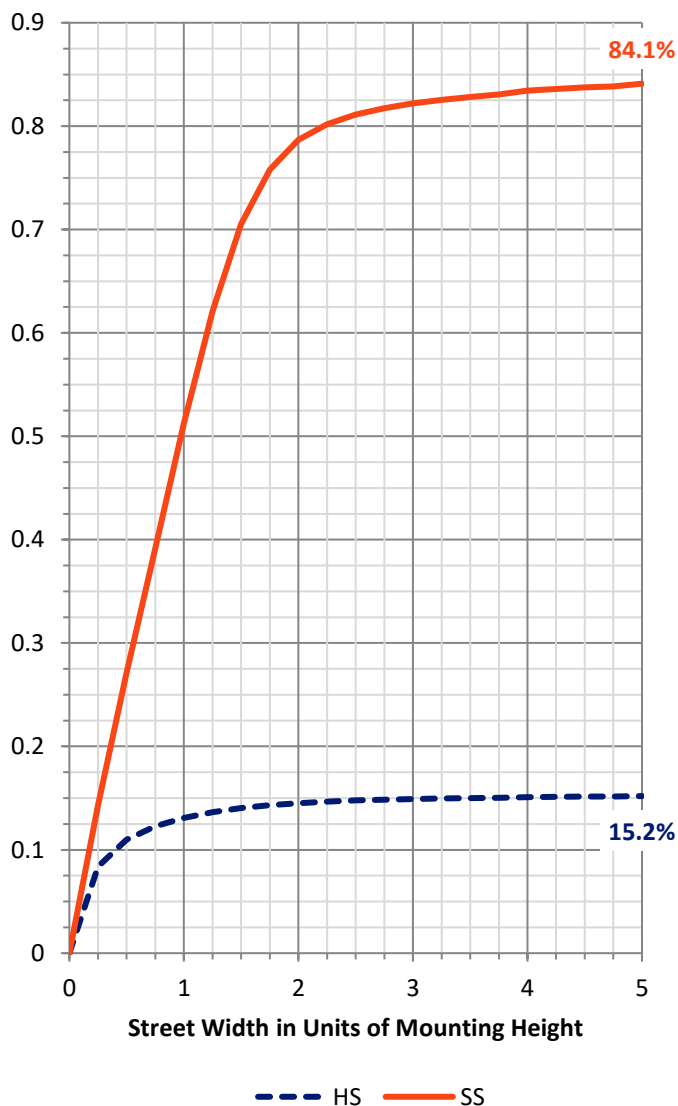
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6299.7	0.0	6299.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	34778.4	0.0	34778.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	41078.1	0.0	41078.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.9	2.3
10°-20°	2035.8	5.0
20°-30°	2632.1	6.4
30°-40°	3542.0	8.6
40°-50°	5647.9	13.7
50°-60°	9975.5	24.3
60°-70°	10974.4	26.7
70°-80°	4590.8	11.2
80°-90°	733.7	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°	41078.1	100.0
0°-180°	41078.1	100.0

Coefficient of Utilization



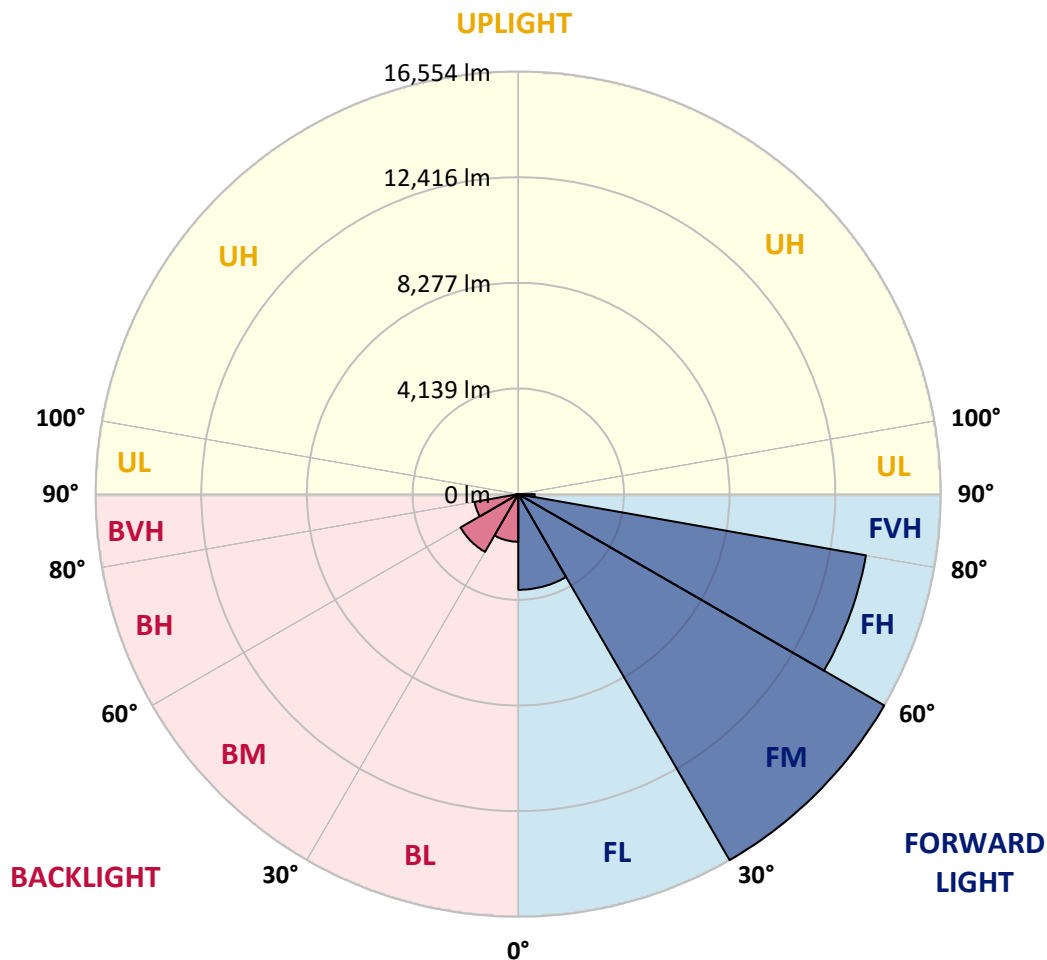
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3748.2	9.1			
FM (30°-60°)	16554.4	40.3			
FH (60°-80°)	13828.1	33.7			G5
FVH (80°-90°)	647.6	1.6			G4/750
BL (0°-30°)	1865.7	4.5	B3/2500		
BM (30°-60°)	2610.9	6.4	B3/5000		
BH (60°-80°)	1737.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	86.1	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9
2.5°	11600.9	11619.4	11619.4	11656.4	11531.6	11591.7	11582.4	11527.0	11545.5	11448.4	11351.4
5°	11272.8	11258.9	11332.9	11342.1	11439.2	11466.9	11490.0	11453.0	11462.3	11249.7	11157.2
7.5°	10431.6	10427.0	10551.8	10658.1	10861.4	11050.9	11175.7	11138.7	11189.6	11055.5	10838.3
10°	9433.3	9539.6	9669.0	9775.3	10149.7	10390.0	10713.5	10745.9	10940.0	10907.6	10514.8
12.5°	8684.5	8730.7	8827.8	9132.8	9474.9	9872.3	10334.5	10376.1	10565.6	10658.1	10316.0
15°	8069.8	8111.4	8236.2	8462.7	8846.3	9317.7	9904.7	10011.0	10390.0	10422.4	10057.2
17.5°	7621.5	7653.8	7737.0	7963.5	8277.8	8883.3	9437.9	9627.4	10126.6	10283.7	9789.2
20°	7445.9	7376.5	7422.7	7566.0	7880.3	8347.1	9063.5	9229.9	9867.7	10177.4	9534.9
22.5°	7367.3	7307.2	7334.9	7325.7	7575.3	7908.0	8661.4	8837.0	9622.8	10052.6	9308.5
25°	7427.4	7427.4	7399.6	7376.5	7404.3	7621.5	8227.0	8499.6	9294.6	9946.3	9077.4
27.5°	7750.9	7626.1	7640.0	7542.9	7515.2	7515.2	8032.8	8194.6	9188.3	9886.2	8887.9
30°	7958.9	8019.0	8023.6	7880.3	7737.0	7478.2	7852.6	8009.7	9100.5	9960.2	8777.0
32.5°	8490.4	8462.7	8384.1	8356.4	8143.8	7852.6	7940.4	8046.7	9049.7	10126.6	8809.3
35°	9021.9	9008.1	9012.7	8998.8	8777.0	8347.1	8176.1	8319.4	9142.1	10417.7	8920.2
37.5°	9571.9	9608.9	9766.0	9766.0	9530.3	9063.5	8837.0	8795.4	9479.5	10893.8	9183.7
40°	10121.9	10214.4	10413.1	10727.4	10394.6	9960.2	9595.0	9530.3	9886.2	11531.6	9816.9
42.5°	10648.8	10801.3	11194.2	11661.0	11550.1	11115.6	10630.3	10556.4	10722.8	12479.1	10699.7
45°	11323.6	11453.0	12072.4	12788.8	12941.3	12557.7	11989.2	11929.1	11919.8	13865.7	11915.2
47.5°	12349.7	12488.3	13107.7	13828.7	14300.1	14360.2	13722.4	13657.7	13435.8	15737.5	13694.6
50°	13634.6	13861.0	14383.3	15224.5	15908.5	16551.0	16370.7	16181.2	15746.8	17914.4	15950.1
52.5°	14572.8	14850.1	15557.3	16634.2	17840.5	18861.9	19509.0	19509.0	18510.7	20303.9	18663.2
55°	14822.4	14988.8	15880.8	17438.4	19504.4	22088.0	23442.2	23340.5	21801.4	22818.2	21819.9
57.5°	13828.7	14045.9	15127.4	16759.0	20377.9	25106.1	27347.7	27370.8	25397.3	25739.3	24935.1
60°	11092.5	11161.9	12437.5	14619.0	19536.7	27537.2	32681.4	32769.2	29487.6	28341.4	26520.4
62.5°	7667.7	7889.6	8850.9	10764.4	16185.8	27264.5	37825.5	38260.0	32764.5	29714.1	26770.0
65°	5047.1	5181.1	5694.2	6858.9	11268.2	23631.7	39424.7	40765.0	35269.6	29792.7	25725.4
67.5°	3660.5	3683.6	3836.2	4437.0	6771.1	16994.7	36693.1	38583.5	36207.8	29136.4	23275.8
70°	2958.0	2976.5	3032.0	3415.6	4372.3	10635.0	29926.7	32889.3	33393.1	26025.8	18746.4
72.5°	2403.4	2426.5	2495.8	2856.3	3605.1	5916.0	21884.6	25494.3	27162.8	19254.8	12460.6
75°	1890.4	1908.8	2075.2	2431.1	3387.8	4062.6	14517.3	18053.1	18279.6	11254.3	5832.8
77.5°	1294.1	1326.5	1529.8	2061.4	3189.1	3554.2	9049.7	11564.0	10376.1	4404.7	2005.9
80°	822.7	868.9	989.1	1562.2	2819.4	3392.5	5629.5	6905.1	4543.3	1506.7	966.0
82.5°	485.3	531.5	651.7	1012.2	2213.9	3147.5	3965.6	4321.5	2130.7	771.9	582.4
85°	268.1	300.4	392.9	610.1	1298.7	2796.2	3175.2	3101.3	1220.2	411.3	365.1
87.5°	87.8	101.7	143.3	245.0	536.1	1317.2	1904.2	1788.7	633.2	189.5	143.3
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°	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9	11295.9
2.5°	11286.6	11272.8	11064.8	10907.6	10639.6	10417.7	10329.9	10209.7	10205.1	10117.3	10094.2
5°	11014.0	10870.7	10551.8	10246.7	9770.7	9451.8	9160.6	8957.2	8874.0	8693.8	8652.2
7.5°	10662.7	10473.2	9983.3	9410.2	8850.9	8351.7	7898.8	7445.9	7191.7	7103.8	7006.8
10°	10297.6	9964.8	9239.1	8596.7	7815.6	7048.4	6336.6	5698.8	5352.1	5107.2	5000.9
12.5°	10006.4	9562.7	8638.3	7677.0	6646.3	5620.2	4792.9	4122.7	3729.9	3545.0	3461.8
15°	9678.2	9091.2	7982.0	6766.4	5481.6	4316.8	3508.0	2981.1	2824.0	2736.2	2722.3
17.5°	9331.6	8652.2	7270.2	5869.8	4344.6	3249.2	2726.9	2514.3	2445.0	2408.0	2389.5
20°	9008.1	8259.3	6540.0	4871.5	3401.7	2606.7	2361.8	2250.9	2246.2	2264.7	2260.1
22.5°	8550.5	7746.3	5819.0	3947.1	2717.7	2269.3	2112.2	2084.5	2112.2	2135.3	2144.6
25°	8291.7	7325.7	5014.7	3133.6	2246.2	2015.1	1964.3	1955.1	1996.7	2024.4	2019.8
27.5°	8023.6	6891.2	4266.0	2509.7	1968.9	1834.9	1825.6	1834.9	1876.5	1918.1	1913.5
30°	7815.6	6544.6	3563.5	2098.3	1756.3	1705.5	1696.2	1705.5	1728.6	1733.2	1733.2
32.5°	7644.6	6133.2	2967.3	1821.0	1626.9	1585.3	1594.6	1589.9	1594.6	1599.2	1603.8
35°	7542.9	5888.3	2477.3	1650.0	1520.6	1488.2	1483.6	1469.8	1474.4	1479.0	1474.4
37.5°	7760.1	5768.1	2089.1	1529.8	1446.7	1418.9	1409.7	1400.4	1386.6	1386.6	1386.6
40°	8088.3	5703.4	1853.4	1451.3	1391.2	1358.8	1331.1	1321.9	1321.9	1326.5	1331.1
42.5°	8740.0	5809.7	1691.6	1391.2	1321.9	1284.9	1257.2	1261.8	1275.6	1289.5	1280.3
45°	9682.8	6133.2	1617.7	1345.0	1280.3	1229.4	1210.9	1206.3	1220.2	1243.3	1261.8
47.5°	10916.9	6637.0	1589.9	1303.4	1252.5	1183.2	1160.1	1174.0	1192.4	1224.8	1210.9
50°	12936.7	7769.4	1613.0	1266.4	1210.9	1160.1	1132.4	1118.5	1132.4	1155.5	1164.7
52.5°	15575.8	9826.1	1700.9	1247.9	1183.2	1141.6	1095.4	1072.3	1086.1	1104.6	1104.6
55°	18732.5	12636.2	1945.8	1224.8	1137.0	1113.9	1063.0	1016.8	1026.1	1026.1	1021.4
57.5°	21514.9	14757.7	2237.0	1192.4	1109.3	1076.9	1012.2	956.7	947.5	952.1	956.7
60°	22762.8	15321.5	2375.6	1183.2	1109.3	1030.7	942.9	887.4	873.5	864.3	864.3
62.5°	22545.6	14346.3	2093.7	1141.6	1137.0	993.7	878.2	818.1	799.6	781.1	785.7
65°	21232.9	12955.1	1650.0	1086.1	1141.6	970.6	813.5	753.4	721.0	697.9	693.3
67.5°	18834.2	11060.2	1308.0	1044.5	1095.4	929.0	758.0	688.7	660.9	637.8	628.6
70°	14734.6	8670.7	1137.0	989.1	984.5	827.3	693.3	633.2	591.6	563.9	563.9
72.5°	9553.4	5481.6	975.2	878.2	850.4	693.3	600.8	563.9	531.5	508.4	508.4
75°	4326.1	2546.7	785.7	734.9	693.3	554.6	508.4	489.9	462.2	439.1	439.1
77.5°	1553.0	1086.1	587.0	577.7	517.7	429.8	411.3	397.5	379.0	355.9	355.9
80°	868.9	688.7	439.1	420.6	360.5	318.9	295.8	295.8	286.6	272.7	268.1
82.5°	550.0	448.3	323.5	281.9	235.7	212.6	203.4	198.7	194.1	175.6	171.0
85°	346.6	305.0	212.6	166.4	138.7	106.3	101.7	97.1	87.8	78.6	78.6
87.5°	157.1	175.6	83.2	50.8	37.0	23.1	13.9	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)