

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: P480008

Luminaire Tested: **IFLD-S-SA6E-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

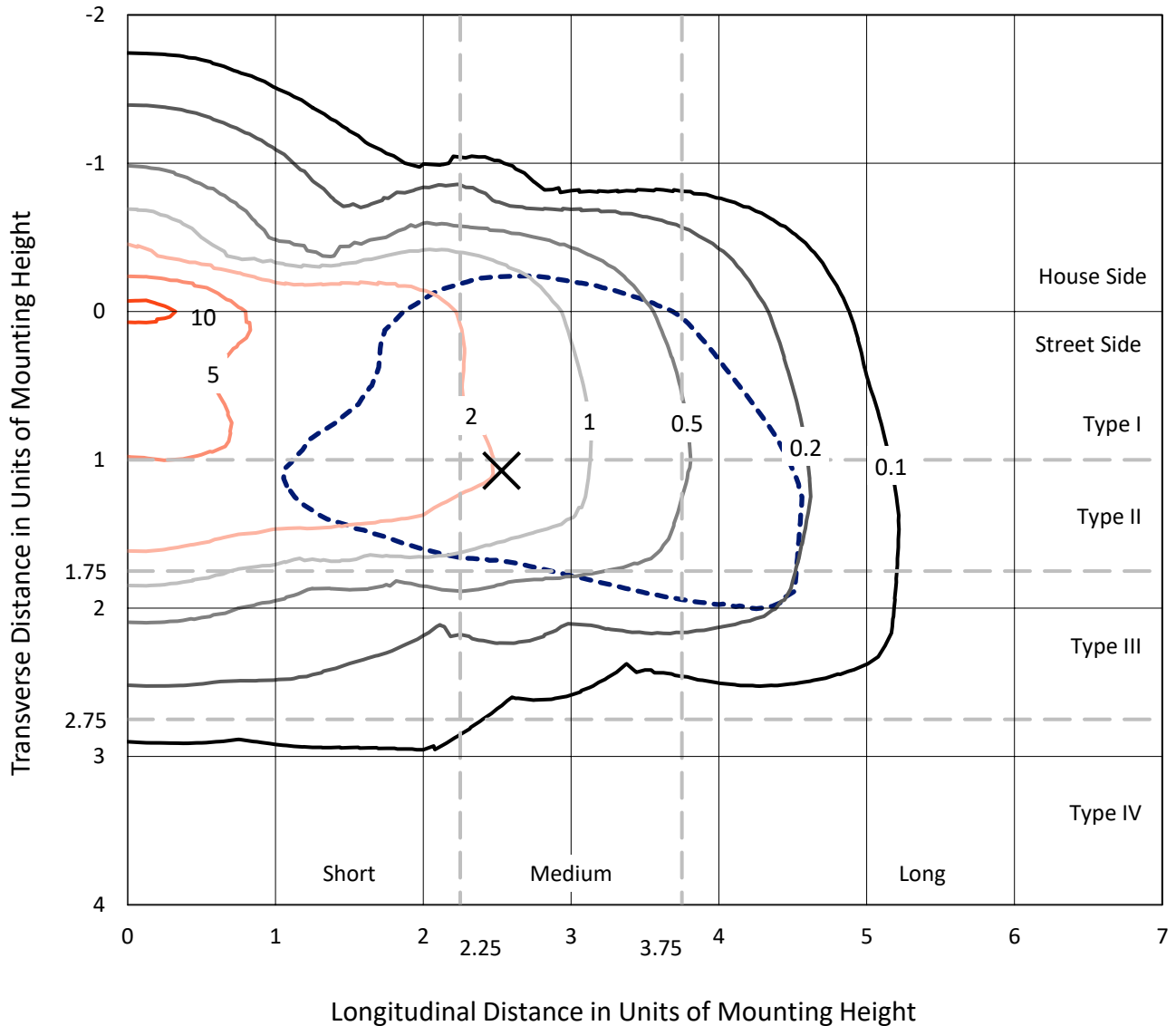
Lumens per Lamp: N/A
Luminaire Lumens: 44120.9 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

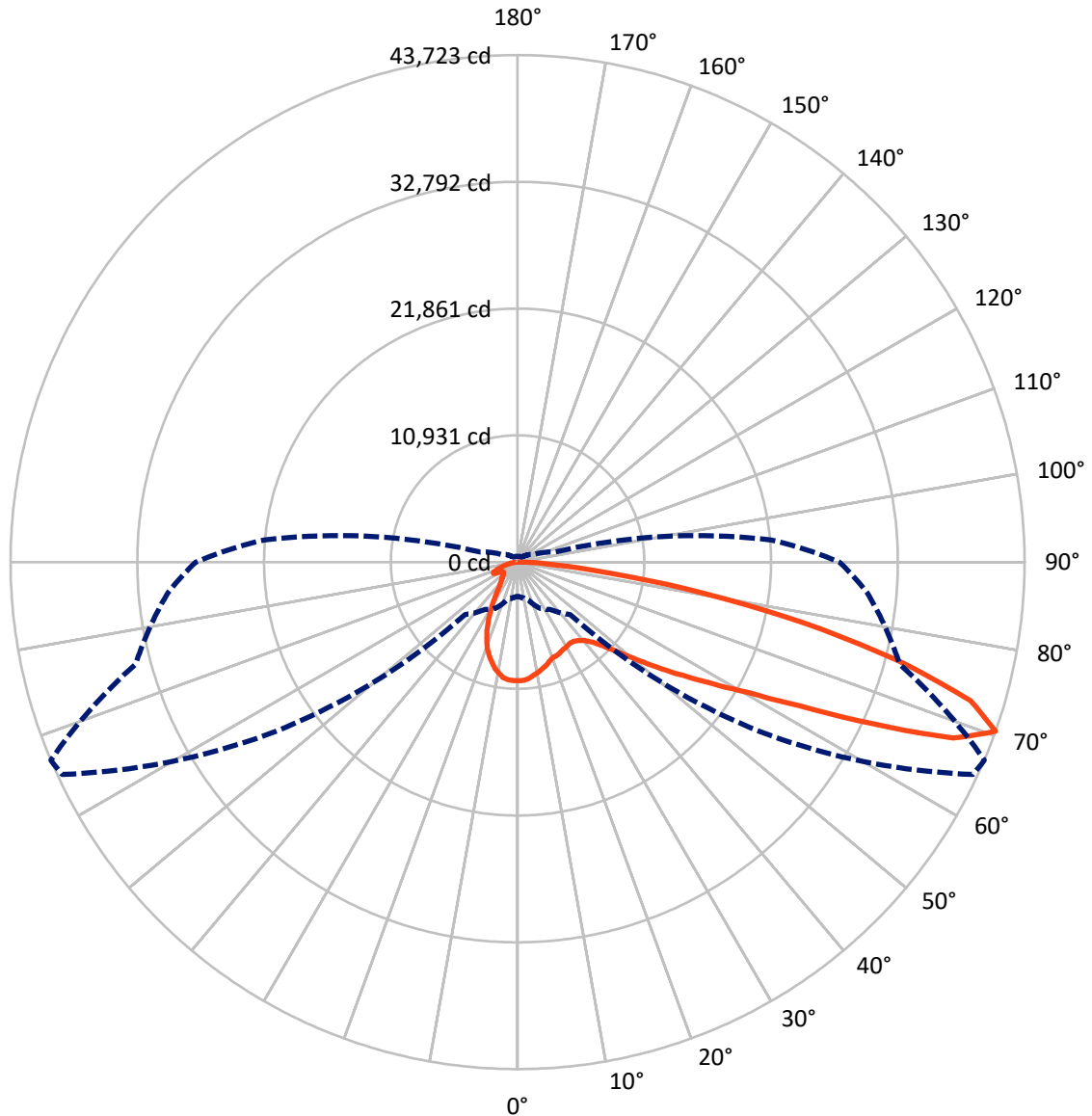
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.4 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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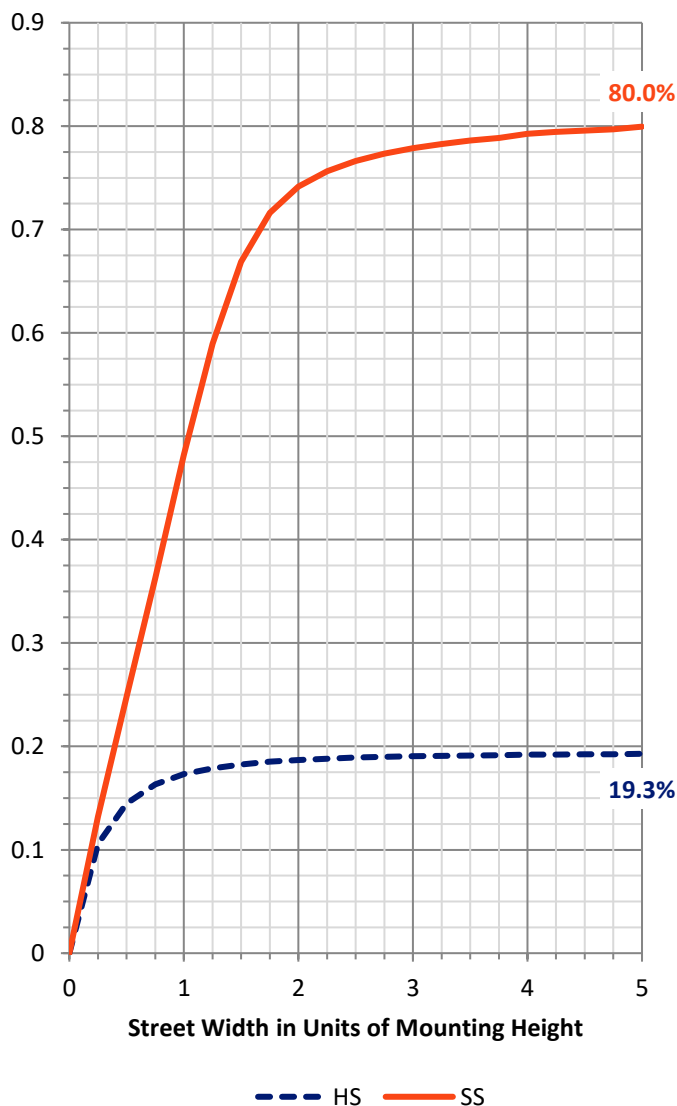
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8593.0	0.0	8593.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	35528.0	0.0	35528.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	44120.9	0.0	44120.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.2	2.0
10°-20°	2134.3	4.8
20°-30°	2882.3	6.5
30°-40°	3856.7	8.7
40°-50°	5671.3	12.9
50°-60°	8840.1	20.0
60°-70°	10889.5	24.7
70°-80°	7694.4	17.4
80°-90°	1261.2	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°	44120.9	100.0
0°-180°	44120.9	100.0

Coefficient of Utilization



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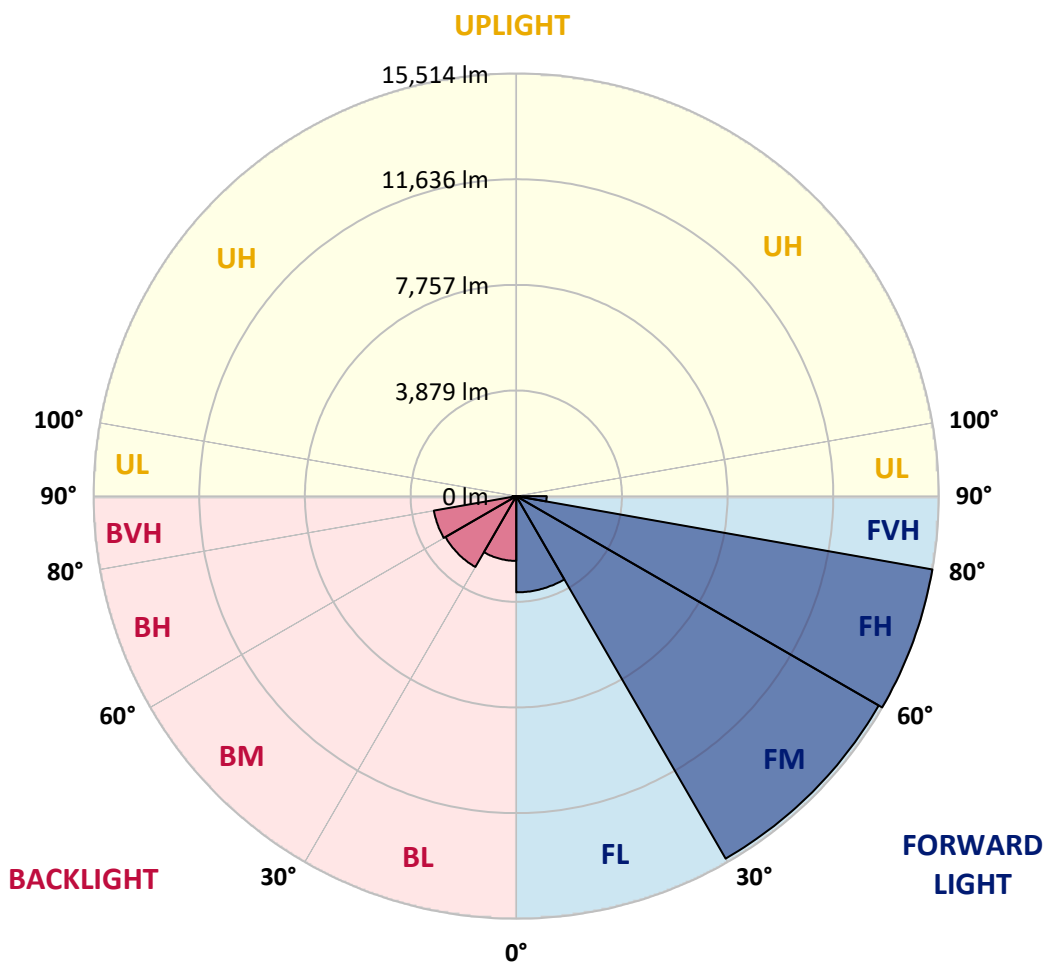
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3531.5	8.0			
FM	(30°-60°)	15366.4	34.8			
FH	(60°-80°)	15514.4	35.2			G5
FVH	(80°-90°)	1115.7	2.5			G5
BL	(0°-30°)	2376.2	5.4	B3/2500		
BM	(30°-60°)	3001.7	6.8	B3/5000		
BH	(60°-80°)	3069.5	7.0	B4/5000		G4/5000
BVH	(80°-90°)	145.5	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°	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9
2.5°	9510.5	9617.9	9657.0	9715.6	9867.0	9979.4	10047.8	10125.9	10218.7	10296.9	10345.7
5°	8846.1	8904.8	8997.6	9061.1	9251.6	9554.4	9759.6	10091.7	10082.0	10204.1	10389.7
7.5°	8201.4	8260.0	8303.9	8430.9	8704.5	8978.0	9354.2	9891.5	9852.4	10135.7	10423.9
10°	7800.8	7756.9	7771.5	7986.4	8201.4	8509.1	8982.9	9530.0	9671.7	10111.3	10521.6
12.5°	7424.7	7375.9	7493.1	7629.9	7893.6	8172.1	8738.7	9232.0	9447.0	10023.4	10565.6
15°	7190.2	7156.0	7302.6	7361.2	7673.8	8006.0	8406.5	9007.3	9241.8	9915.9	10497.2
17.5°	7058.4	7087.7	7141.4	7268.4	7468.7	7752.0	8191.6	8855.9	8958.5	9784.0	10482.5
20°	7082.8	7117.0	7121.9	7175.6	7312.4	7532.2	7981.6	8694.7	8763.1	9759.6	10521.6
22.5°	7278.2	7229.3	7248.9	7214.7	7253.7	7424.7	7820.4	8479.8	8743.6	9554.4	10438.5
25°	7571.2	7502.9	7493.1	7375.9	7302.6	7351.4	7791.1	8426.1	8597.0	9490.9	10433.7
27.5°	8089.0	7986.4	7986.4	7810.6	7512.6	7434.5	7708.0	8338.1	8489.6	9432.3	10321.3
30°	8587.3	8587.3	8592.1	8343.0	8010.9	7625.0	7742.2	8303.9	8401.6	9256.5	10169.9
32.5°	9193.0	9178.3	9153.9	9031.8	8518.9	7942.5	7908.3	8260.0	8308.8	9197.8	10125.9
35°	9784.0	9744.9	9935.4	9828.0	9305.3	8562.8	8079.3	8279.5	8387.0	9109.9	9989.2
37.5°	10228.5	10252.9	10648.6	10717.0	10267.6	9266.2	8562.8	8474.9	8577.5	9236.9	9989.2
40°	10804.9	10902.6	11273.8	11503.4	11229.9	10194.3	9329.7	8802.2	8875.5	9520.2	10204.1
42.5°	11562.0	11645.1	12118.9	12416.8	12338.7	11376.4	10086.9	9486.0	9427.4	9994.0	10526.5
45°	12563.4	12578.0	13056.7	13467.0	13628.2	12612.2	11288.5	10350.6	10301.8	10809.8	11117.5
47.5°	13755.2	13740.6	14038.6	14478.2	14912.9	14087.4	12670.8	11664.6	11488.8	11977.2	12099.3
50°	14908.0	14844.5	14912.9	15474.6	16309.9	15933.8	14351.2	13271.7	13095.8	13364.5	13574.5
52.5°	15543.0	15621.2	15435.6	16178.0	17794.9	18117.3	16578.6	15191.3	15039.9	15171.8	15538.2
55°	15098.5	15259.7	15137.6	15841.0	18444.5	20779.4	19460.5	17413.9	17218.5	17169.6	17770.4
57.5°	13208.2	13501.2	13525.7	14639.4	18219.8	22840.7	23514.8	20036.9	19743.9	19245.6	19866.0
60°	10140.6	10433.7	10658.4	11977.2	16295.3	24071.7	28213.9	23768.8	22801.7	21512.1	21883.3
62.5°	7107.2	7307.5	7532.2	8343.0	12563.4	23348.7	32277.9	29024.7	27241.8	23900.7	24364.8
65°	5177.8	5334.1	5563.6	6042.3	7717.8	19318.9	34163.4	35267.4	33577.3	26939.0	26880.4
67.5°	3898.0	3995.7	4298.5	5065.4	5348.7	11933.3	32209.5	41861.7	40494.0	30314.3	28902.6
70°	2950.3	3033.4	3316.7	4366.9	4997.0	6398.9	25410.1	43331.9	43722.7	34099.9	30260.6
72.5°	2032.0	2124.8	2442.3	3639.1	4757.7	5075.2	15948.5	39365.6	40845.6	35658.1	28804.9
75°	1245.6	1309.1	1494.7	2759.8	4723.5	4962.8	8777.8	32258.4	33826.4	32947.1	25200.0
77.5°	879.2	874.4	908.5	1616.8	4093.4	4992.1	5412.2	23636.9	25161.0	24281.7	17101.2
80°	639.9	644.8	679.0	967.2	2779.4	5075.2	4264.3	15831.2	16285.5	12661.1	6745.7
82.5°	385.9	405.4	488.5	654.5	1670.6	4581.8	3941.9	8797.3	8230.7	4064.0	1856.2
85°	205.2	205.2	288.2	415.2	889.0	3419.3	3795.4	4186.2	3507.2	1260.2	688.7
87.5°	48.8	48.8	83.0	166.1	356.6	1636.4	2588.9	1665.7	1333.5	425.0	283.3
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°	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9	10213.9
2.5°	10326.2	10267.6	10340.9	10194.3	10077.1	10082.0	9901.2	9891.5	9867.0	9740.0	9784.0
5°	10443.4	10394.6	10311.5	10150.4	9891.5	9632.6	9476.3	9276.0	9193.0	9149.0	9168.5
7.5°	10555.8	10467.9	10228.5	10003.8	9603.3	9114.8	8831.5	8562.8	8220.9	8181.8	8113.4
10°	10585.1	10399.5	10091.7	9613.0	9080.6	8538.4	7893.6	7395.4	7131.6	6926.5	6848.3
12.5°	10541.1	10463.0	9871.9	9256.5	8450.5	7600.6	6848.3	6144.9	5656.5	5402.5	5334.1
15°	10536.2	10399.5	9627.7	8714.3	7683.6	6574.8	5505.0	4660.0	4147.1	3937.0	3937.0
17.5°	10541.1	10213.9	9339.5	8167.2	6779.9	5280.3	4103.1	3409.5	3126.2	3096.9	3121.3
20°	10443.4	10077.1	9036.6	7522.4	5646.7	3966.4	2979.7	2696.3	2696.3	2735.4	2750.1
22.5°	10355.5	9871.9	8557.9	6726.2	4493.9	2872.2	2422.8	2339.8	2432.6	2501.0	2530.3
25°	10233.4	9701.0	8069.5	5900.7	3419.3	2315.3	2105.3	2124.8	2212.8	2334.9	2325.1
27.5°	10057.5	9403.0	7488.2	4943.3	2544.9	1997.8	1944.1	1953.9	2046.7	2100.4	2090.6
30°	9857.3	9100.1	6950.9	3990.8	2017.4	1831.8	1826.9	1851.3	1865.9	1895.3	1890.4
32.5°	9603.3	8699.6	6379.4	3101.8	1817.1	1738.9	1719.4	1704.8	1719.4	1714.5	1699.9
35°	9422.5	8484.7	5798.1	2364.2	1704.8	1655.9	1641.3	1616.8	1597.3	1568.0	1563.1
37.5°	9373.7	8269.8	5187.5	1929.4	1616.8	1592.4	1543.6	1499.6	1475.2	1460.5	1450.7
40°	9344.4	8128.1	4591.6	1695.0	1543.6	1519.1	1460.5	1401.9	1377.5	1362.8	1367.7
42.5°	9447.0	8049.9	3985.9	1577.7	1480.1	1436.1	1372.6	1304.2	1299.3	1289.6	1304.2
45°	9808.4	8147.6	3424.2	1494.7	1416.6	1343.3	1260.2	1226.1	1221.2	1211.4	1221.2
47.5°	10629.1	8391.9	2945.5	1441.0	1348.2	1284.7	1196.7	1147.9	1143.0	1138.1	1138.1
50°	11762.3	9144.1	2544.9	1377.5	1304.2	1216.3	1133.2	1079.5	1069.7	1050.2	1050.2
52.5°	13540.3	10409.2	2305.6	1343.3	1226.1	1152.8	1064.9	1006.2	981.8	962.3	962.3
55°	15543.0	11977.2	2261.6	1284.7	1143.0	1074.6	996.5	937.9	913.4	889.0	879.2
57.5°	17824.2	14053.2	2574.2	1245.6	1084.4	996.5	908.5	854.8	835.3	810.9	801.1
60°	19949.0	16124.3	3546.3	1187.0	1030.7	923.2	835.3	781.5	757.1	732.7	732.7
62.5°	22406.0	18688.8	5192.4	1187.0	981.8	845.0	757.1	718.0	703.4	679.0	674.1
65°	25312.4	21341.1	6394.0	1260.2	967.2	776.7	683.9	644.8	630.1	615.5	610.6
67.5°	27525.1	22865.2	5500.1	1455.6	1030.7	718.0	610.6	586.2	576.4	561.7	552.0
70°	27759.6	21937.1	3316.7	1572.9	1094.2	659.4	547.1	522.7	522.7	508.0	498.2
72.5°	25654.3	19465.4	2232.3	1401.9	991.6	591.0	483.6	464.0	454.3	444.5	439.6
75°	21468.1	16510.2	1763.4	1118.6	762.0	488.5	420.1	400.5	385.9	381.0	371.2
77.5°	14419.6	10731.6	1304.2	874.4	561.7	395.7	351.7	332.2	317.5	312.6	298.0
80°	5539.2	4088.5	840.2	635.0	395.7	312.6	278.4	258.9	249.1	234.5	224.7
82.5°	1631.5	1323.7	468.9	390.8	254.0	214.9	200.3	185.6	171.0	156.3	151.4
85°	674.1	605.7	288.2	205.2	156.3	127.0	117.2	102.6	87.9	78.2	68.4
87.5°	312.6	258.9	131.9	78.2	53.7	29.3	14.7	4.9	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)