

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: P480060

Luminaire Tested: **IFLD-L-SA8C-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480060
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

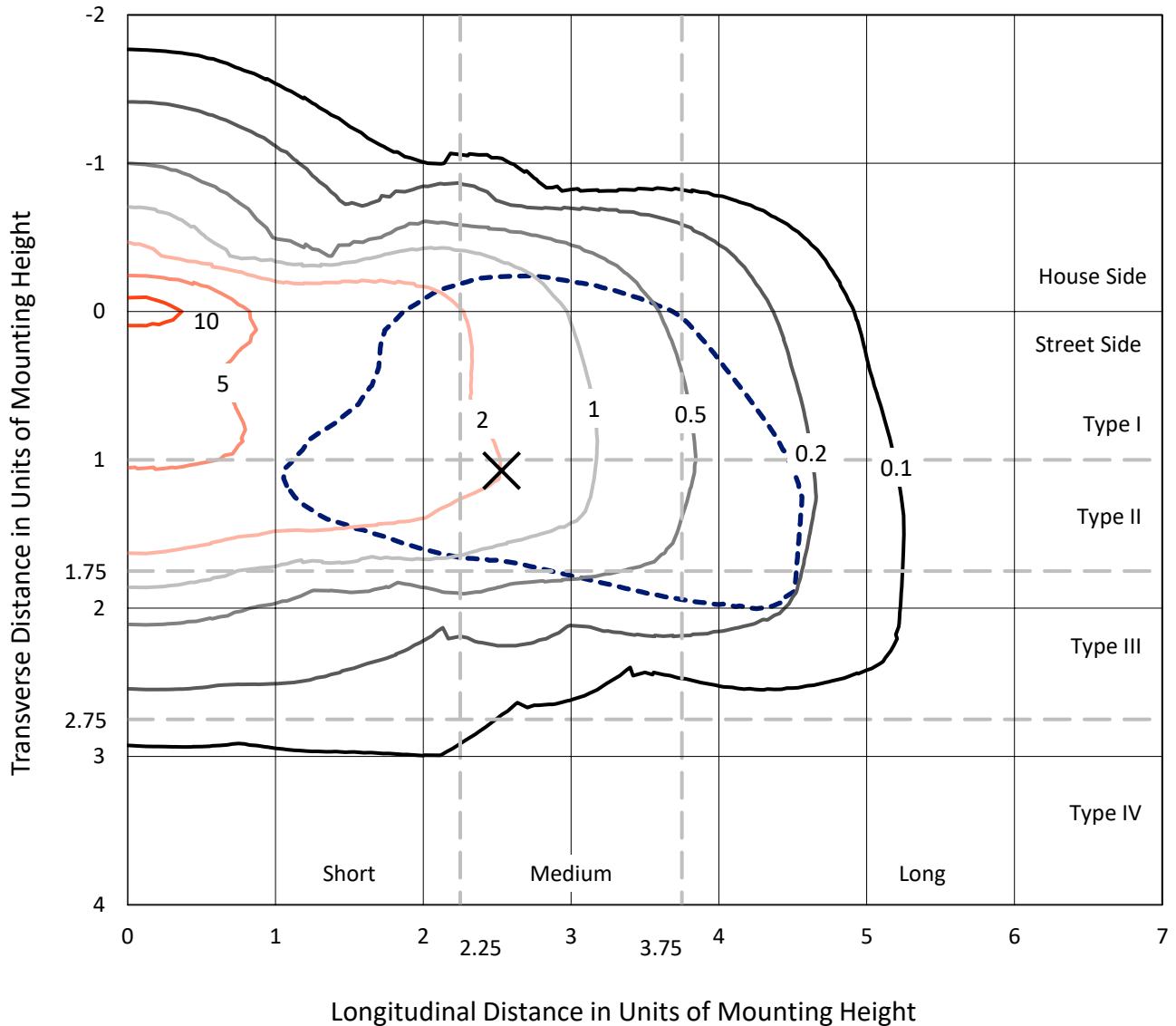
Lumens per Lamp: N/A
Luminaire Lumens: 45998.9 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

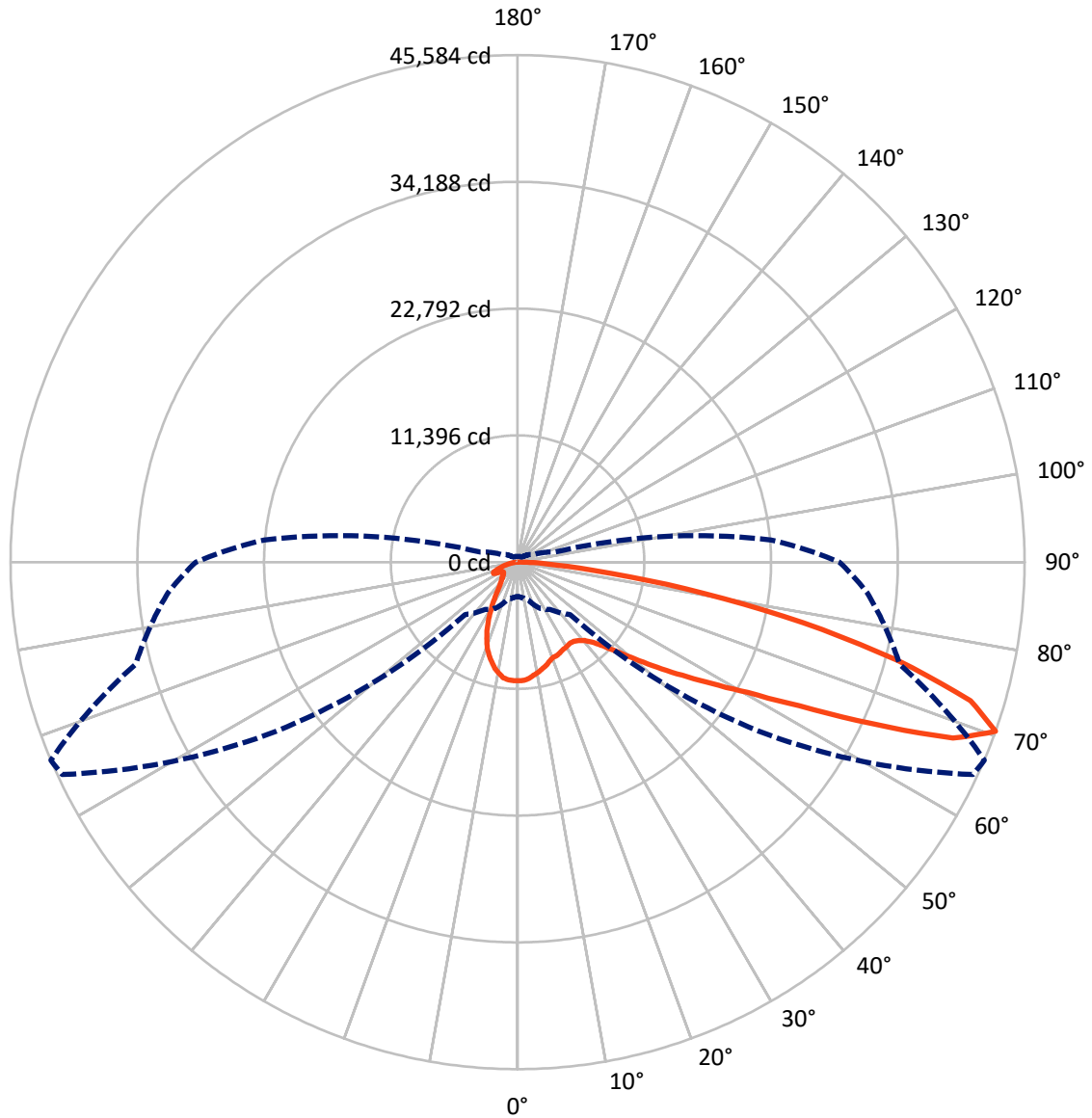
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 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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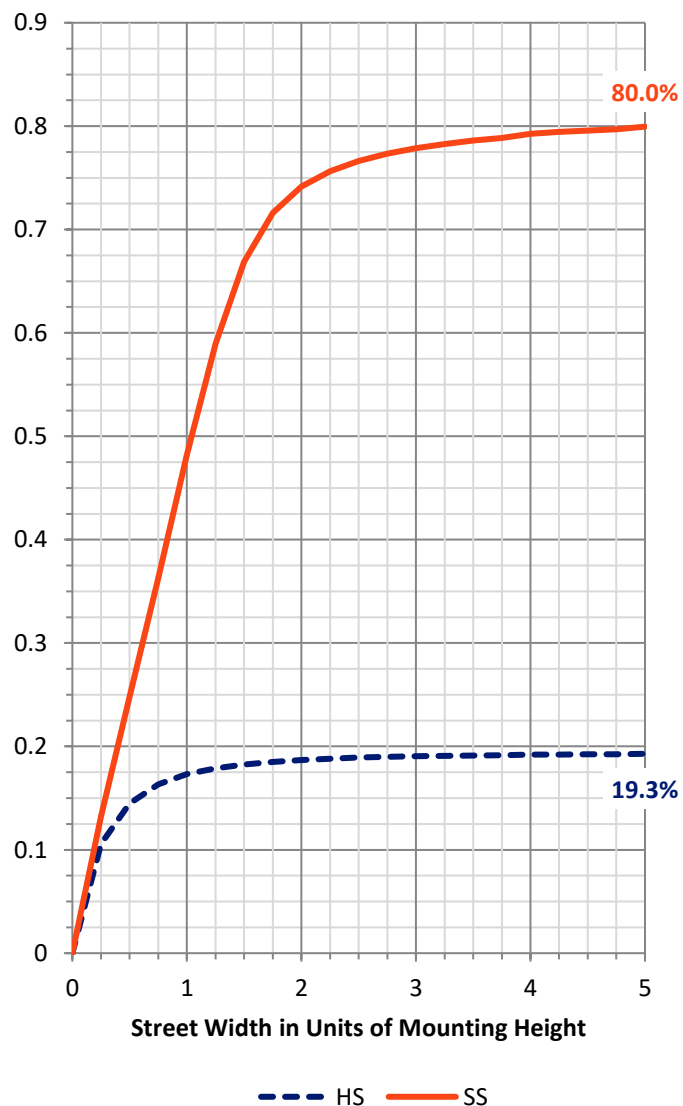
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8958.7	0.0	8958.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	37040.2	0.0	37040.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	45998.9	0.0	45998.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.1	2.0
10°-20°	2225.2	4.8
20°-30°	3005.0	6.5
30°-40°	4020.9	8.7
40°-50°	5912.6	12.9
50°-60°	9216.3	20.0
60°-70°	11353.0	24.7
70°-80°	8021.9	17.4
80°-90°	1314.8	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°	45998.9	100.0
0°-180°	45998.9	100.0

Coefficient of Utilization



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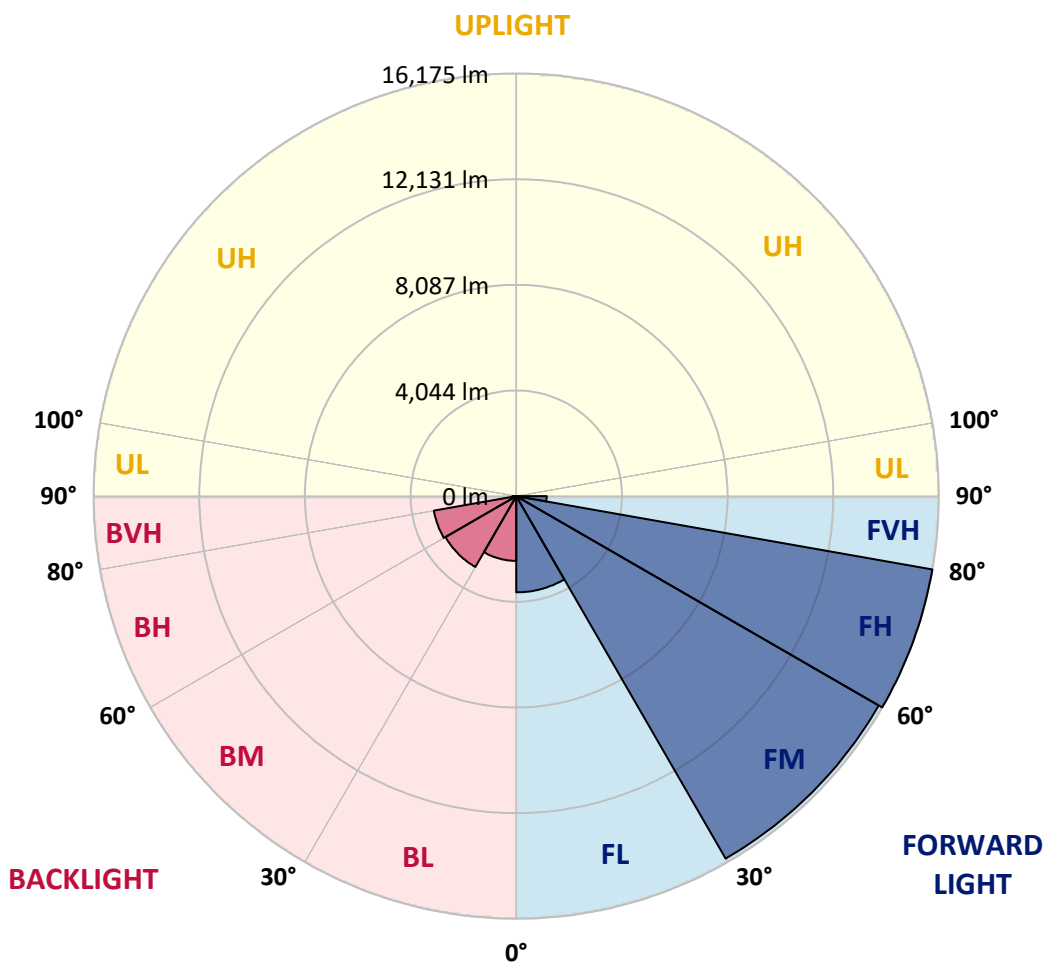
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3681.9	8.0			
FM (30°-60°)	16020.4	34.8			
FH (60°-80°)	16174.7	35.2			G5
FVH (80°-90°)	1163.2	2.5			G5
BL (0°-30°)	2477.4	5.4	B3/2500		
BM (30°-60°)	3129.5	6.8	B3/5000		
BH (60°-80°)	3200.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	151.7	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°	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6
2.5°	9915.3	10027.3	10068.0	10129.2	10287.0	10404.2	10475.4	10556.9	10653.7	10735.2	10786.1
5°	9222.7	9283.8	9380.5	9446.7	9645.4	9961.1	10175.0	10521.3	10511.1	10638.4	10831.9
7.5°	8550.5	8611.6	8657.4	8789.8	9075.0	9360.2	9752.3	10312.5	10271.7	10567.1	10867.6
10°	8132.9	8087.0	8102.3	8326.4	8550.5	8871.3	9365.3	9935.6	10083.3	10541.7	10969.4
12.5°	7740.7	7689.8	7812.0	7954.6	8229.6	8519.9	9110.6	9625.0	9849.1	10450.0	11015.3
15°	7496.3	7460.6	7613.4	7674.5	8000.5	8346.7	8764.3	9390.7	9635.2	10337.9	10944.0
17.5°	7358.8	7389.3	7445.4	7577.8	7786.6	8081.9	8540.3	9232.9	9339.8	10200.4	10928.7
20°	7384.2	7419.9	7425.0	7481.0	7623.6	7852.8	8321.3	9064.8	9136.1	10175.0	10969.4
22.5°	7588.0	7537.0	7557.4	7521.7	7562.5	7740.7	8153.2	8840.7	9115.7	9961.1	10882.9
25°	7893.5	7822.2	7812.0	7689.8	7613.4	7664.3	8122.7	8784.7	8962.9	9894.9	10877.8
27.5°	8433.3	8326.4	8326.4	8143.0	7832.4	7750.9	8036.1	8693.0	8850.9	9833.8	10760.6
30°	8952.8	8952.8	8957.9	8698.1	8351.8	7949.5	8071.7	8657.4	8759.2	9650.4	10602.8
32.5°	9584.2	9569.0	9543.5	9416.2	8881.5	8280.5	8244.9	8611.6	8662.5	9589.3	10556.9
35°	10200.4	10159.7	10358.3	10246.3	9701.4	8927.3	8423.1	8631.9	8744.0	9497.7	10414.3
37.5°	10663.9	10689.3	11101.8	11173.1	10704.6	9660.6	8927.3	8835.6	8942.6	9630.1	10414.3
40°	11264.8	11366.6	11753.7	11993.0	11707.9	10628.2	9726.8	9176.8	9253.2	9925.4	10638.4
42.5°	12054.1	12140.7	12634.7	12945.4	12863.9	11860.6	10516.2	9889.8	9828.7	10419.4	10974.5
45°	13098.1	13113.4	13612.5	14040.3	14208.3	13149.1	11769.0	10791.2	10740.3	11269.9	11590.7
47.5°	14340.7	14325.4	14636.1	15094.4	15547.7	14687.0	13210.2	12161.1	11977.8	12487.0	12614.3
50°	15542.6	15476.4	15547.7	16133.3	17004.1	16612.0	14962.0	13836.6	13653.2	13933.3	14152.3
52.5°	16204.6	16286.1	16092.6	16866.6	18552.3	18888.4	17284.2	15837.9	15680.1	15817.6	16199.5
55°	15741.2	15909.2	15781.9	16515.3	19229.6	21663.9	20288.9	18155.1	17951.4	17900.4	18526.8
57.5°	13770.3	14075.9	14101.4	15262.5	18995.3	23812.9	24515.7	20889.8	20584.2	20064.8	20711.5
60°	10572.2	10877.8	11112.0	12487.0	16988.9	25096.3	29414.8	24780.5	23772.2	22427.7	22814.8
62.5°	7409.7	7618.5	7852.8	8698.1	13098.1	24342.6	33651.8	30260.1	28401.3	24918.0	25401.8
65°	5398.1	5561.1	5800.5	6299.5	8046.3	20141.2	35617.5	36768.5	35006.4	28085.6	28024.5
67.5°	4063.9	4165.7	4481.5	5281.0	5576.4	12441.2	33580.5	43643.5	42217.5	31604.6	30132.8
70°	3075.9	3162.5	3457.9	4552.8	5209.7	6671.3	26491.6	45176.3	45583.7	35551.3	31548.6
72.5°	2118.5	2215.3	2546.3	3794.0	4960.2	5291.2	16627.3	41041.1	42584.2	37175.9	30031.0
75°	1298.6	1364.8	1558.3	2877.3	4924.5	5174.1	9151.4	33631.4	35266.2	34349.5	26272.6
77.5°	916.7	911.6	947.2	1685.6	4267.6	5204.6	5642.6	24643.0	26231.9	25315.2	17829.1
80°	667.1	672.2	707.9	1008.3	2897.7	5291.2	4445.8	16505.1	16978.7	13200.0	7032.9
82.5°	402.3	422.7	509.3	682.4	1741.7	4776.8	4109.7	9171.7	8581.0	4237.0	1935.2
85°	213.9	213.9	300.5	432.9	926.9	3564.8	3956.9	4364.3	3656.5	1313.9	718.1
87.5°	50.9	50.9	86.6	173.1	371.8	1706.0	2699.1	1736.6	1390.3	443.1	295.4
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°	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6	10648.6
2.5°	10765.7	10704.6	10781.0	10628.2	10506.0	10511.1	10322.7	10312.5	10287.0	10154.6	10200.4
5°	10887.9	10837.0	10750.4	10582.4	10312.5	10042.6	9879.6	9670.8	9584.2	9538.4	9558.8
7.5°	11005.1	10913.4	10663.9	10429.6	10012.0	9502.8	9207.4	8927.3	8570.8	8530.1	8458.8
10°	11035.6	10842.1	10521.3	10022.2	9467.1	8901.8	8229.6	7710.2	7435.2	7221.3	7139.8
12.5°	10989.8	10908.3	10292.1	9650.4	8810.2	7924.1	7139.8	6406.5	5897.2	5632.4	5561.1
15°	10984.7	10842.1	10037.5	9085.2	8010.6	6854.6	5739.3	4858.3	4323.6	4104.6	4104.6
17.5°	10989.8	10648.6	9737.0	8514.8	7068.5	5505.1	4277.8	3554.6	3259.3	3228.7	3254.2
20°	10887.9	10506.0	9421.3	7842.6	5887.0	4135.2	3106.5	2811.1	2811.1	2851.8	2867.1
22.5°	10796.3	10292.1	8922.2	7012.5	4685.2	2994.4	2525.9	2439.3	2536.1	2607.4	2638.0
25°	10669.0	10113.9	8413.0	6151.8	3564.8	2413.9	2194.9	2215.3	2306.9	2434.3	2424.1
27.5°	10485.6	9803.2	7806.9	5153.7	2653.2	2082.9	2026.8	2037.0	2133.8	2189.8	2179.6
30°	10276.8	9487.5	7246.7	4160.6	2103.2	1909.7	1904.6	1930.1	1945.4	1975.9	1970.8
32.5°	10012.0	9069.9	6650.9	3233.8	1894.4	1813.0	1792.6	1777.3	1792.6	1787.5	1772.2
35°	9823.6	8845.8	6044.9	2464.8	1777.3	1726.4	1711.1	1685.6	1665.3	1634.7	1629.6
37.5°	9772.7	8621.7	5408.3	2011.6	1685.6	1660.2	1609.3	1563.4	1538.0	1522.7	1512.5
40°	9742.1	8474.1	4787.0	1767.1	1609.3	1583.8	1522.7	1461.6	1436.1	1420.8	1425.9
42.5°	9849.1	8392.6	4155.5	1644.9	1543.1	1497.2	1431.0	1359.7	1354.6	1344.4	1359.7
45°	10225.9	8494.4	3569.9	1558.3	1476.8	1400.5	1313.9	1278.2	1273.1	1263.0	1273.1
47.5°	11081.5	8749.1	3070.8	1502.3	1405.6	1339.3	1247.7	1196.8	1191.7	1186.6	1186.6
50°	12262.9	9533.3	2653.2	1436.1	1359.7	1268.1	1181.5	1125.5	1115.3	1094.9	1094.9
52.5°	14116.6	10852.3	2403.7	1400.5	1278.2	1201.9	1110.2	1049.1	1023.6	1003.2	1003.2
55°	16204.6	12487.0	2357.9	1339.3	1191.7	1120.4	1038.9	977.8	952.3	926.9	916.7
57.5°	18582.8	14651.4	2683.8	1298.6	1130.6	1038.9	947.2	891.2	870.8	845.4	835.2
60°	20798.1	16810.6	3697.2	1237.5	1074.5	962.5	870.8	814.8	789.4	763.9	763.9
62.5°	23359.7	19484.2	5413.4	1237.5	1023.6	881.0	789.4	748.6	733.3	707.9	702.8
65°	26389.8	22249.5	6666.2	1313.9	1008.3	809.7	713.0	672.2	656.9	641.7	636.6
67.5°	28696.7	23838.4	5734.3	1517.6	1074.5	748.6	636.6	611.1	600.9	585.6	575.5
70°	28941.2	22870.8	3457.9	1639.8	1140.7	687.5	570.4	544.9	544.9	529.6	519.4
72.5°	26746.3	20294.0	2327.3	1461.6	1033.8	616.2	504.2	483.8	473.6	463.4	458.3
75°	22381.9	17212.9	1838.4	1166.2	794.4	509.3	438.0	417.6	402.3	397.2	387.0
77.5°	15033.3	11188.4	1359.7	911.6	585.6	412.5	366.7	346.3	331.0	325.9	310.6
80°	5775.0	4262.5	875.9	662.0	412.5	325.9	290.3	269.9	259.7	244.4	234.3
82.5°	1700.9	1380.1	488.9	407.4	264.8	224.1	208.8	193.5	178.2	163.0	157.9
85°	702.8	631.5	300.5	213.9	163.0	132.4	122.2	106.9	91.7	81.5	71.3
87.5°	325.9	269.9	137.5	81.5	56.0	30.6	15.3	5.1	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)