

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: P480095

Luminaire Tested: **IFLD-L-SA7D-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480095
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

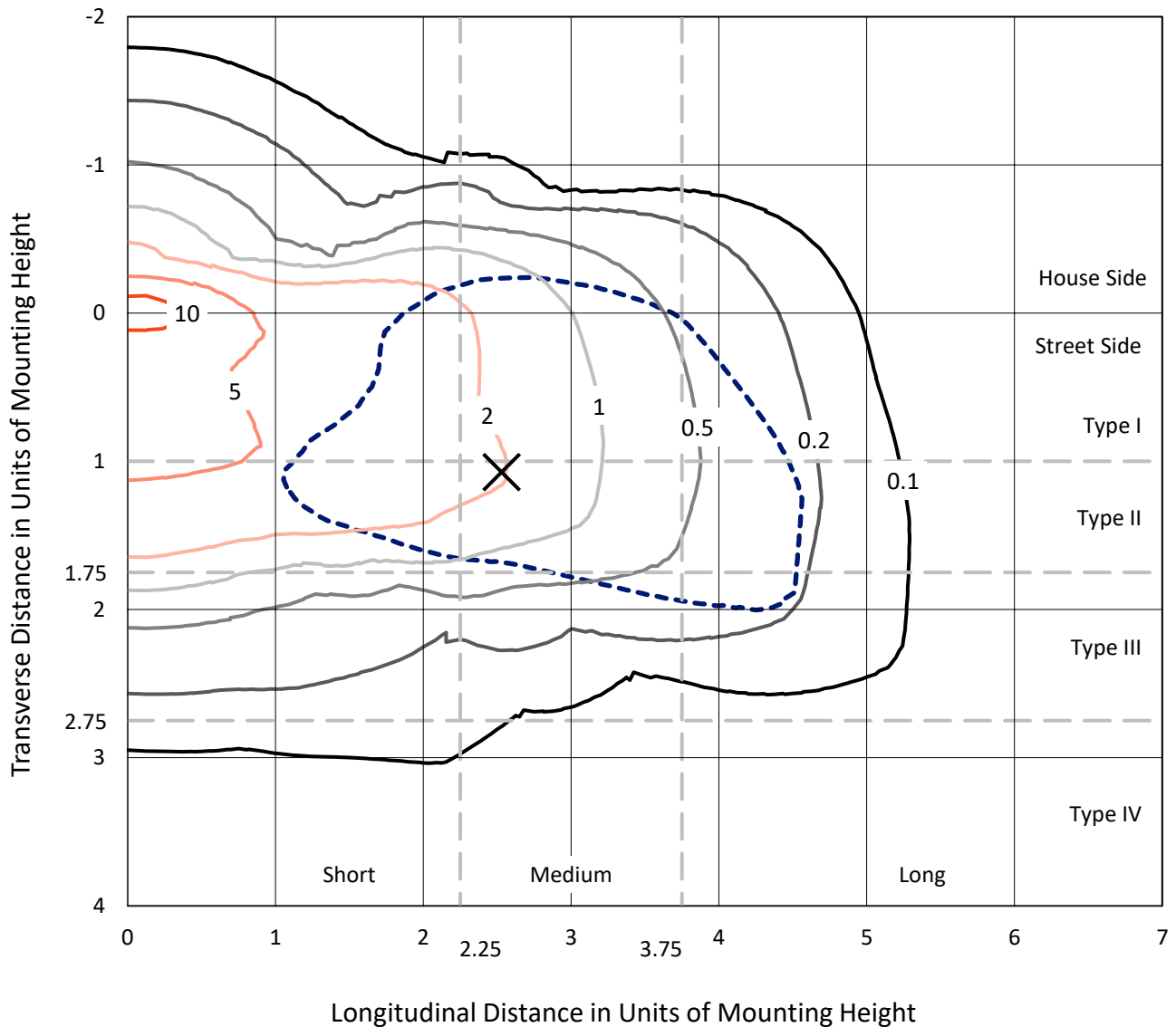
Lumens per Lamp: N/A
Luminaire Lumens: 47969.3 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

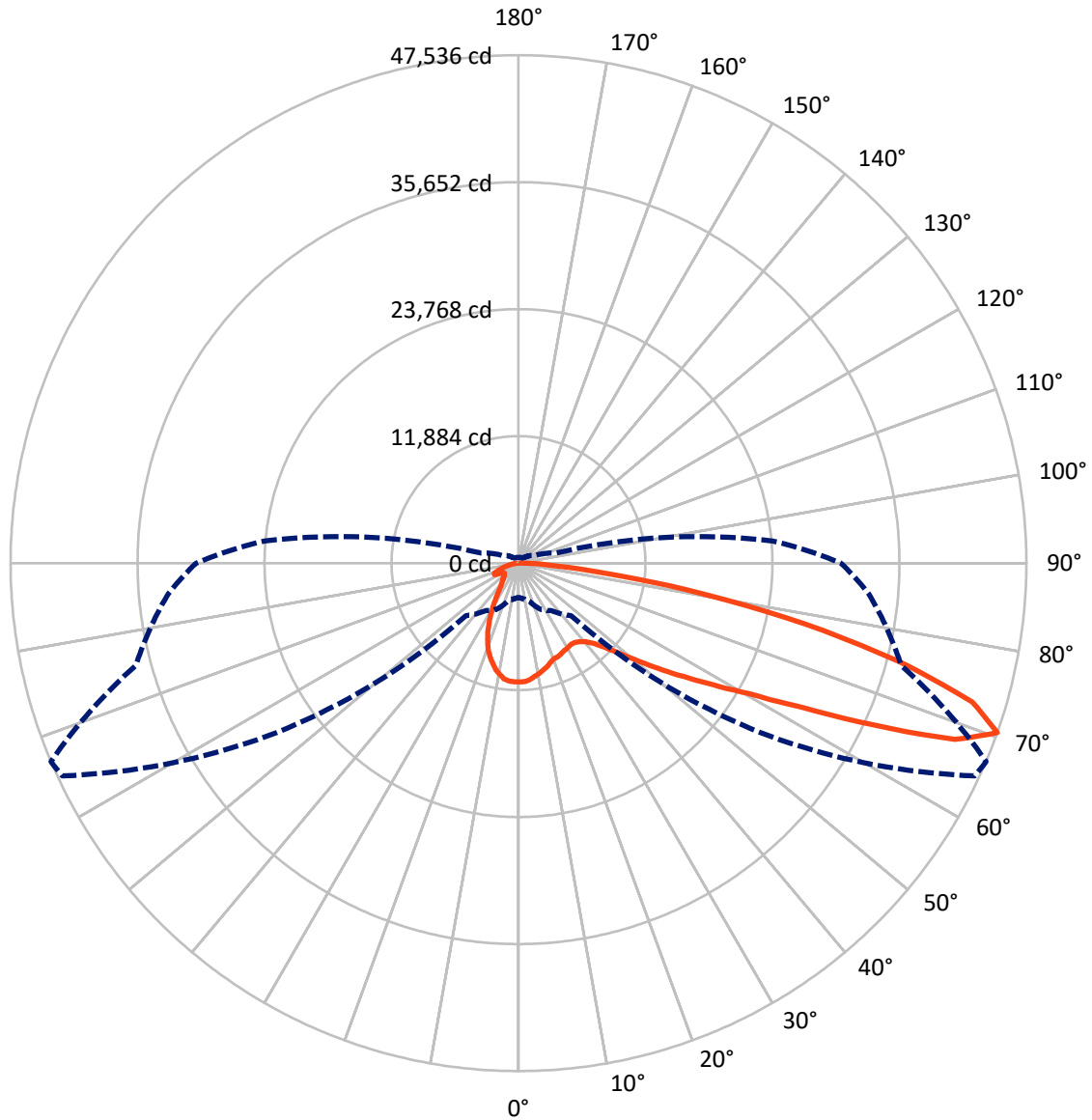
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 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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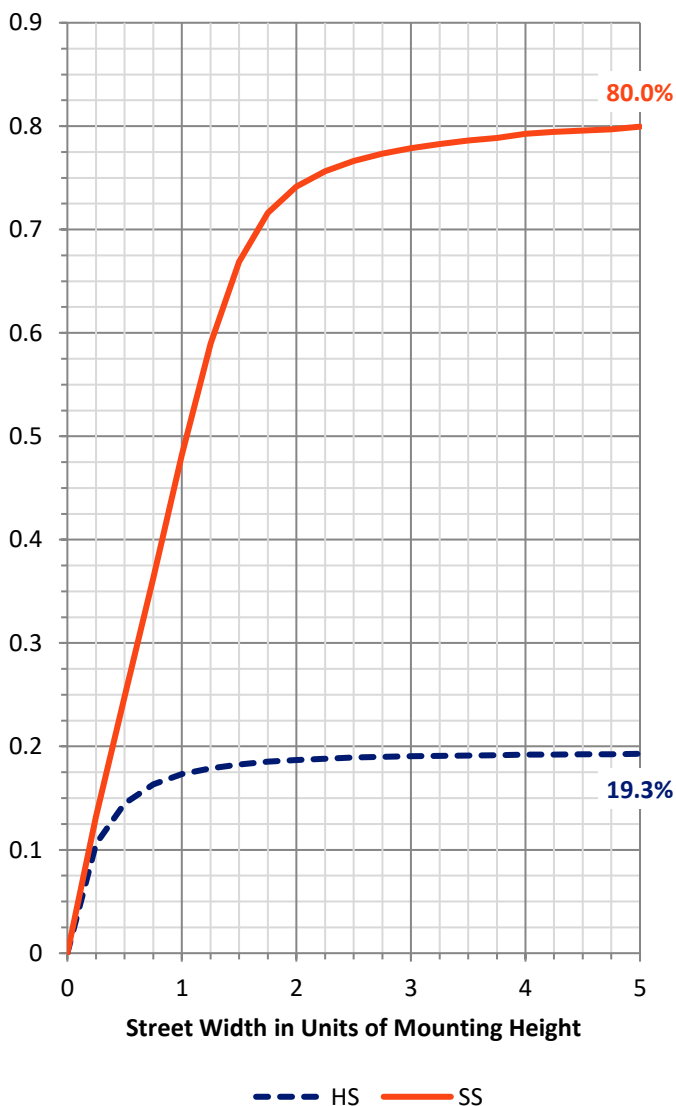
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9342.5	0.0	9342.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	38626.8	0.0	38626.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	47969.3	0.0	47969.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	968.9	2.0
10°-20°	2320.5	4.8
20°-30°	3133.7	6.5
30°-40°	4193.1	8.7
40°-50°	6165.9	12.9
50°-60°	9611.1	20.0
60°-70°	11839.3	24.7
70°-80°	8365.5	17.4
80°-90°	1371.2	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°	47969.3	100.0
0°-180°	47969.3	100.0

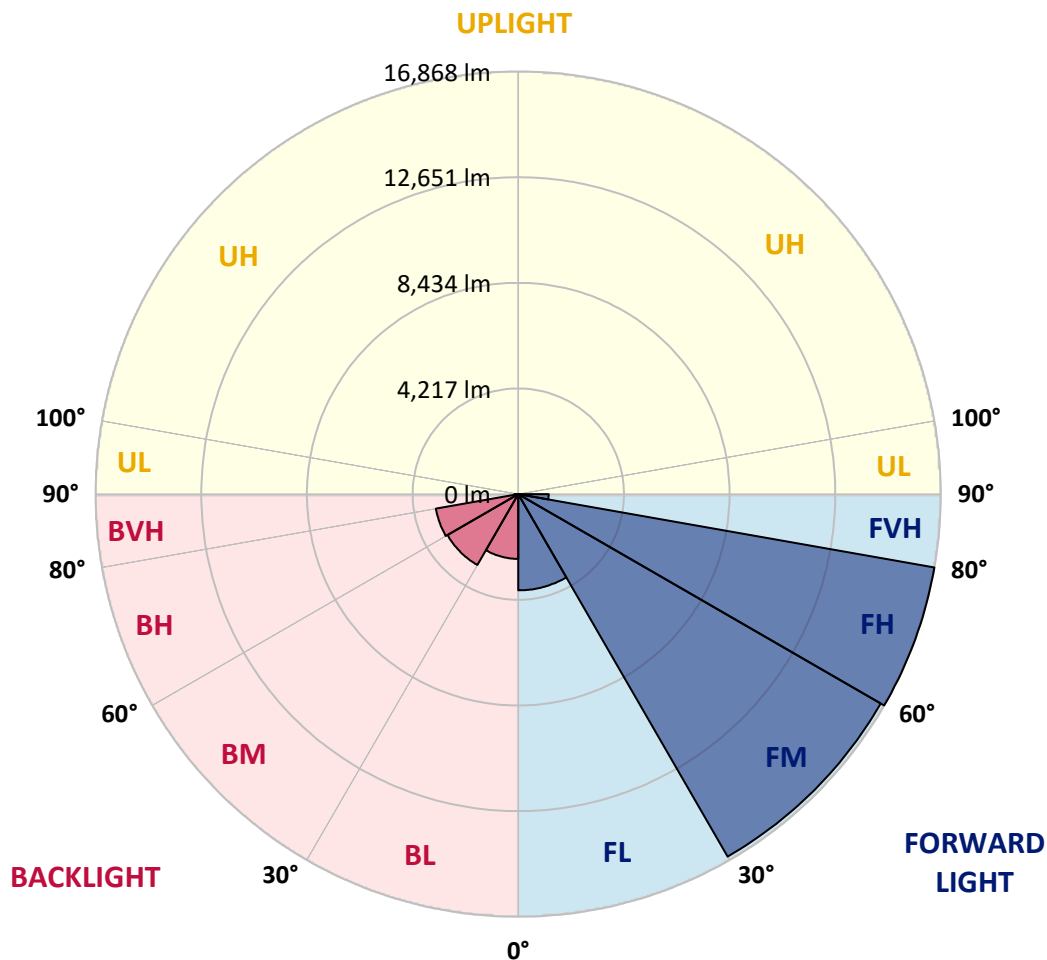


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3839.6	8.0			
FM (30°-60°)	16706.6	34.8			
FH (60°-80°)	16867.6	35.2			G5
FVH (80°-90°)	1213.0	2.5			G5
BL (0°-30°)	2583.5	5.4	B4/5000		
BM (30°-60°)	3263.5	6.8	B3/5000		
BH (60°-80°)	3337.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	158.2	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°	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7
2.5°	10340.0	10456.8	10499.3	10563.0	10727.7	10849.8	10924.2	11009.1	11110.0	11195.0	11248.1
5°	9617.7	9681.5	9782.4	9851.4	10058.5	10387.8	10610.8	10972.0	10961.3	11094.1	11295.9
7.5°	8916.7	8980.4	9028.2	9166.3	9463.7	9761.1	10170.0	10754.2	10711.7	11019.8	11333.1
10°	8481.2	8433.4	8449.4	8683.0	8916.7	9251.3	9766.4	10361.2	10515.2	10993.2	11439.3
12.5°	8072.3	8019.2	8146.7	8295.4	8582.1	8884.8	9500.9	10037.3	10270.9	10897.6	11487.1
15°	7817.4	7780.2	7939.5	8003.3	8343.2	8704.3	9139.8	9793.0	10047.9	10780.8	11412.8
17.5°	7674.0	7705.9	7764.3	7902.4	8120.1	8428.1	8906.1	9628.3	9739.9	10637.4	11396.8
20°	7700.6	7737.7	7743.0	7801.5	7950.2	8189.1	8677.7	9453.1	9527.4	10610.8	11439.3
22.5°	7913.0	7859.9	7881.1	7843.9	7886.4	8072.3	8502.5	9219.4	9506.2	10387.8	11349.0
25°	8231.6	8157.3	8146.7	8019.2	7939.5	7992.6	8470.6	9161.0	9346.9	10318.7	11343.7
27.5°	8794.6	8683.0	8683.0	8491.9	8167.9	8082.9	8380.3	9065.4	9230.0	10255.0	11221.6
30°	9336.3	9336.3	9341.6	9070.7	8709.6	8290.0	8417.5	9028.2	9134.4	10063.8	11056.9
32.5°	9994.8	9978.9	9952.3	9819.5	9261.9	8635.2	8598.1	8980.4	9033.5	10000.1	11009.1
35°	10637.4	10594.9	10802.0	10685.2	10116.9	9309.7	8783.9	9001.7	9118.5	9904.5	10860.4
37.5°	11120.7	11147.2	11577.4	11651.7	11163.1	10074.4	9309.7	9214.1	9325.6	10042.6	10860.4
40°	11747.3	11853.5	12257.2	12506.8	12209.4	11083.5	10143.5	9569.9	9649.6	10350.6	11094.1
42.5°	12570.5	12660.8	13175.9	13499.9	13414.9	12368.7	10966.7	10313.4	10249.7	10865.7	11444.6
45°	13659.2	13675.1	14195.6	14641.7	14816.9	13712.3	12273.1	11253.4	11200.3	11752.6	12087.2
47.5°	14955.0	14939.1	15263.0	15741.0	16213.6	15316.1	13776.0	12682.0	12490.8	13021.9	13154.7
50°	16208.3	16139.3	16213.6	16824.4	17732.5	17323.6	15602.9	14429.2	14238.1	14530.1	14758.5
52.5°	16898.7	16983.7	16781.9	17589.1	19347.0	19697.5	18024.6	16516.4	16351.7	16495.1	16893.4
55°	16415.5	16590.7	16457.9	17222.7	20053.3	22591.8	21157.9	18932.7	18720.3	18667.2	19320.4
57.5°	14360.2	14678.8	14705.4	15916.2	19809.0	24833.0	25565.8	21784.6	21466.0	20924.3	21598.7
60°	11025.1	11343.7	11588.0	13021.9	17716.6	26171.3	30674.8	25842.0	24790.5	23388.4	23792.1
62.5°	7727.1	7944.8	8189.1	9070.7	13659.2	25385.3	35093.3	31556.3	29617.9	25985.4	26489.9
65°	5629.4	5799.3	6048.9	6569.4	8390.9	21003.9	37143.2	38343.4	36505.9	29288.7	29224.9
67.5°	4238.0	4344.2	4673.4	5507.2	5815.2	12974.1	35018.9	45512.9	44025.9	32958.4	31423.6
70°	3207.7	3298.0	3606.0	4747.8	5432.9	6957.1	27626.4	47111.5	47536.3	37074.2	32900.0
72.5°	2209.3	2310.2	2655.4	3956.5	5172.6	5517.8	17339.5	42799.1	44408.3	38768.3	31317.4
75°	1354.2	1423.3	1625.1	3000.6	5135.5	5395.7	9543.4	35072.0	36776.8	35820.9	27398.0
77.5°	955.9	950.6	987.8	1757.9	4450.4	5427.6	5884.3	25698.6	27355.6	26399.6	18592.9
80°	695.7	701.0	738.2	1051.5	3021.8	5517.8	4636.3	17212.1	17706.0	13765.4	7334.1
82.5°	419.5	440.8	531.1	711.6	1816.3	4981.5	4285.8	9564.6	8948.6	4418.5	2018.1
85°	223.1	223.1	313.3	451.4	966.6	3717.5	4126.4	4551.3	3813.1	1370.2	748.8
87.5°	53.1	53.1	90.3	180.6	387.7	1779.1	2814.7	1811.0	1449.8	462.0	308.0
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°	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7	11104.7
2.5°	11226.9	11163.1	11242.8	11083.5	10956.0	10961.3	10764.8	10754.2	10727.7	10589.6	10637.4
5°	11354.3	11301.2	11210.9	11035.7	10754.2	10472.8	10302.8	10085.1	9994.8	9947.0	9968.2
7.5°	11476.5	11380.9	11120.7	10876.4	10440.9	9909.8	9601.8	9309.7	8938.0	8895.5	8821.1
10°	11508.3	11306.5	10972.0	10451.5	9872.6	9283.1	8582.1	8040.4	7753.7	7530.6	7445.6
12.5°	11460.5	11375.6	10733.0	10063.8	9187.6	8263.5	7445.6	6680.9	6149.8	5873.7	5799.3
15°	11455.2	11306.5	10467.4	9474.3	8353.8	7148.2	5985.2	5066.4	4508.8	4280.4	4280.4
17.5°	11460.5	11104.7	10154.1	8879.5	7371.3	5740.9	4461.0	3706.9	3398.9	3367.0	3393.6
20°	11354.3	10956.0	9824.8	8178.5	6139.2	4312.3	3239.5	2931.5	2931.5	2974.0	2989.9
22.5°	11258.7	10733.0	9304.4	7312.9	4885.9	3122.7	2634.1	2543.8	2644.7	2719.1	2751.0
25°	11126.0	10547.1	8773.3	6415.4	3717.5	2517.3	2288.9	2310.2	2405.8	2538.5	2527.9
27.5°	10934.8	10223.1	8141.3	5374.5	2766.9	2172.1	2113.7	2124.3	2225.2	2283.6	2273.0
30°	10717.0	9893.9	7557.2	4338.9	2193.3	1991.5	1986.2	2012.8	2028.7	2060.6	2055.3
32.5°	10440.9	9458.4	6935.8	3372.3	1975.6	1890.6	1869.4	1853.4	1869.4	1864.1	1848.1
35°	10244.4	9224.7	6303.8	2570.4	1853.4	1800.3	1784.4	1757.9	1736.6	1704.7	1699.4
37.5°	10191.3	8991.1	5640.0	2097.7	1757.9	1731.3	1678.2	1630.4	1603.8	1587.9	1577.3
40°	10159.4	8837.0	4992.1	1842.8	1678.2	1651.6	1587.9	1524.2	1497.6	1481.7	1487.0
42.5°	10270.9	8752.1	4333.6	1715.4	1609.2	1561.4	1492.3	1418.0	1412.7	1402.0	1418.0
45°	10663.9	8858.3	3722.8	1625.1	1540.1	1460.4	1370.2	1333.0	1327.7	1317.1	1327.7
47.5°	11556.1	9123.8	3202.4	1566.7	1465.8	1396.7	1301.1	1248.0	1242.7	1237.4	1237.4
50°	12788.2	9941.7	2766.9	1497.6	1418.0	1322.4	1232.1	1173.7	1163.0	1141.8	1141.8
52.5°	14721.3	11317.2	2506.7	1460.4	1333.0	1253.3	1157.7	1094.0	1067.5	1046.2	1046.2
55°	16898.7	13021.9	2458.9	1396.7	1242.7	1168.4	1083.4	1019.7	993.1	966.6	955.9
57.5°	19378.8	15279.0	2798.8	1354.2	1179.0	1083.4	987.8	929.4	908.1	881.6	871.0
60°	21689.0	17530.7	3855.6	1290.5	1120.6	1003.7	908.1	849.7	823.2	796.6	796.6
62.5°	24360.3	20318.8	5645.3	1290.5	1067.5	918.8	823.2	780.7	764.7	738.2	732.9
65°	27520.2	23202.6	6951.7	1370.2	1051.5	844.4	743.5	701.0	685.1	669.2	663.8
67.5°	29925.9	24859.5	5979.9	1582.6	1120.6	780.7	663.8	637.3	626.7	610.7	600.1
70°	30180.9	23850.5	3606.0	1710.1	1189.6	716.9	594.8	568.2	568.2	552.3	541.7
72.5°	27891.9	21163.2	2427.0	1524.2	1078.1	642.6	525.8	504.5	493.9	483.3	478.0
75°	23340.6	17950.3	1917.2	1216.2	828.5	531.1	456.7	435.5	419.5	414.2	403.6
77.5°	15677.3	11667.7	1418.0	950.6	610.7	430.2	382.4	361.1	345.2	339.9	324.0
80°	6022.4	4445.1	913.4	690.4	430.2	339.9	302.7	281.5	270.8	254.9	244.3
82.5°	1773.8	1439.2	509.8	424.9	276.2	233.7	217.7	201.8	185.9	169.9	164.6
85°	732.9	658.5	313.3	223.1	169.9	138.1	127.5	111.5	95.6	85.0	74.4
87.5°	339.9	281.5	143.4	85.0	58.4	31.9	15.9	5.3	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)