

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: P480529

Luminaire Tested: **IFLD-L-SA8D-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480529
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

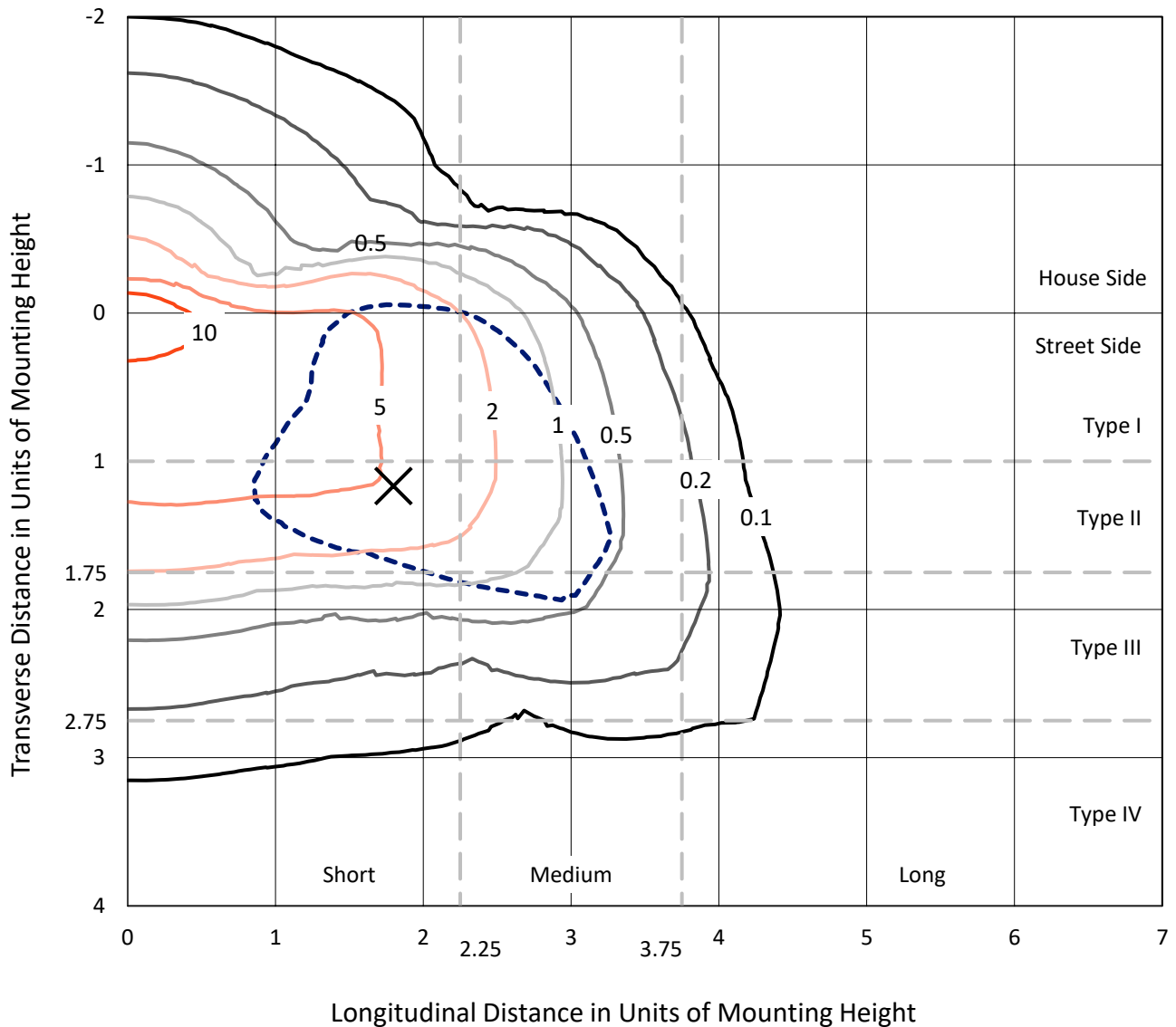
Lumens per Lamp: N/A
Luminaire Lumens: 55007.7 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

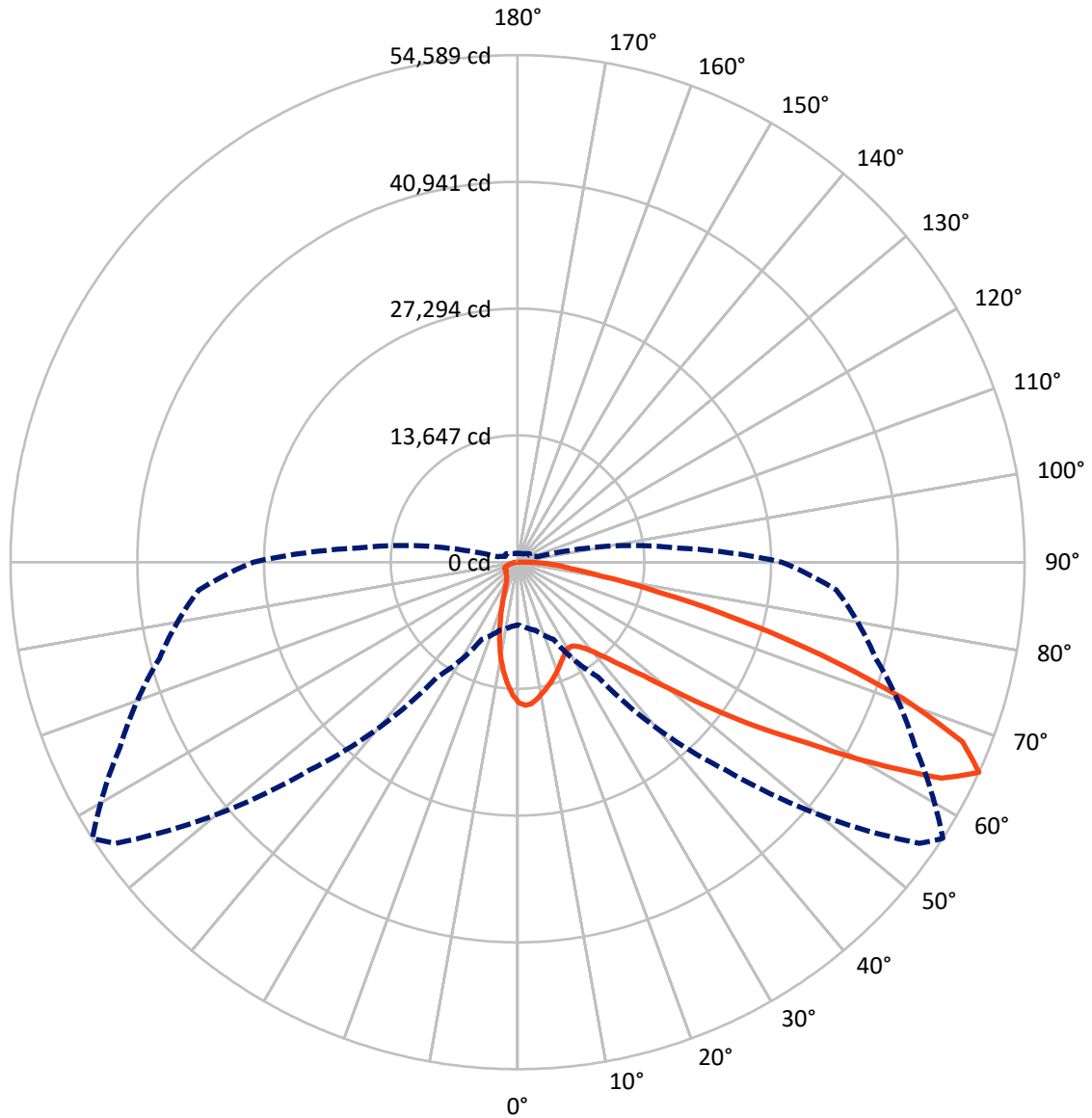
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.8 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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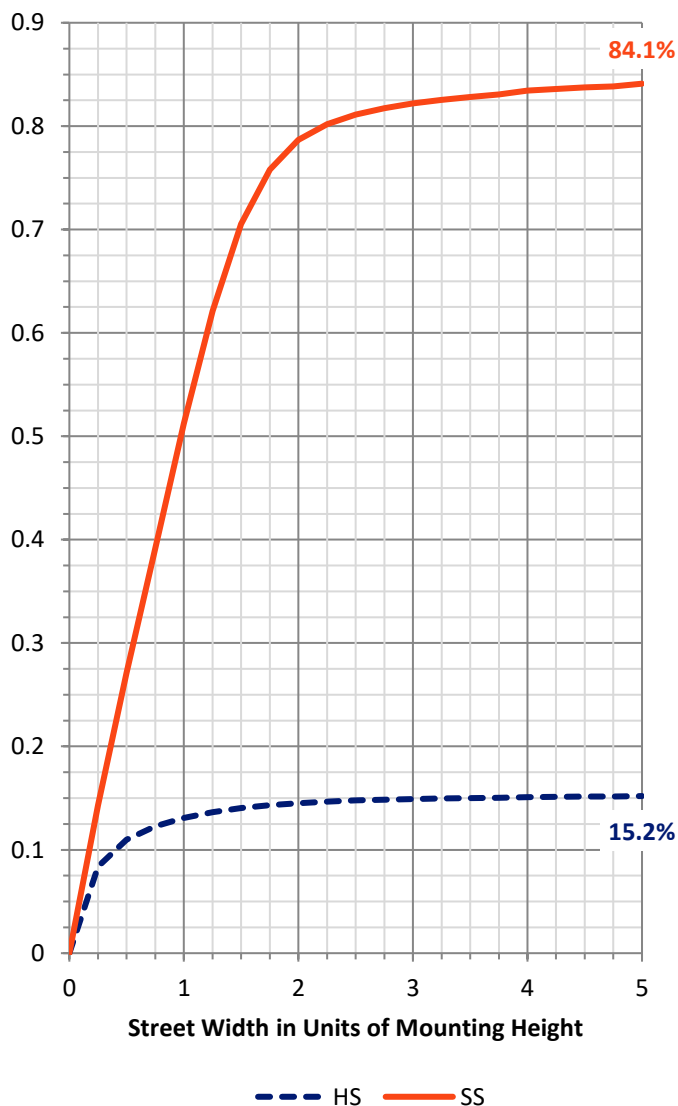
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8435.9	0.0	8435.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	46571.7	0.0	46571.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	55007.7	0.0	55007.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1266.7	2.3
10°-20°	2726.2	5.0
20°-30°	3524.7	6.4
30°-40°	4743.1	8.6
40°-50°	7563.0	13.7
50°-60°	13358.2	24.3
60°-70°	14695.8	26.7
70°-80°	6147.5	11.2
80°-90°	982.5	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°	55007.7	100.0
0°-180°	55007.7	100.0

Coefficient of Utilization



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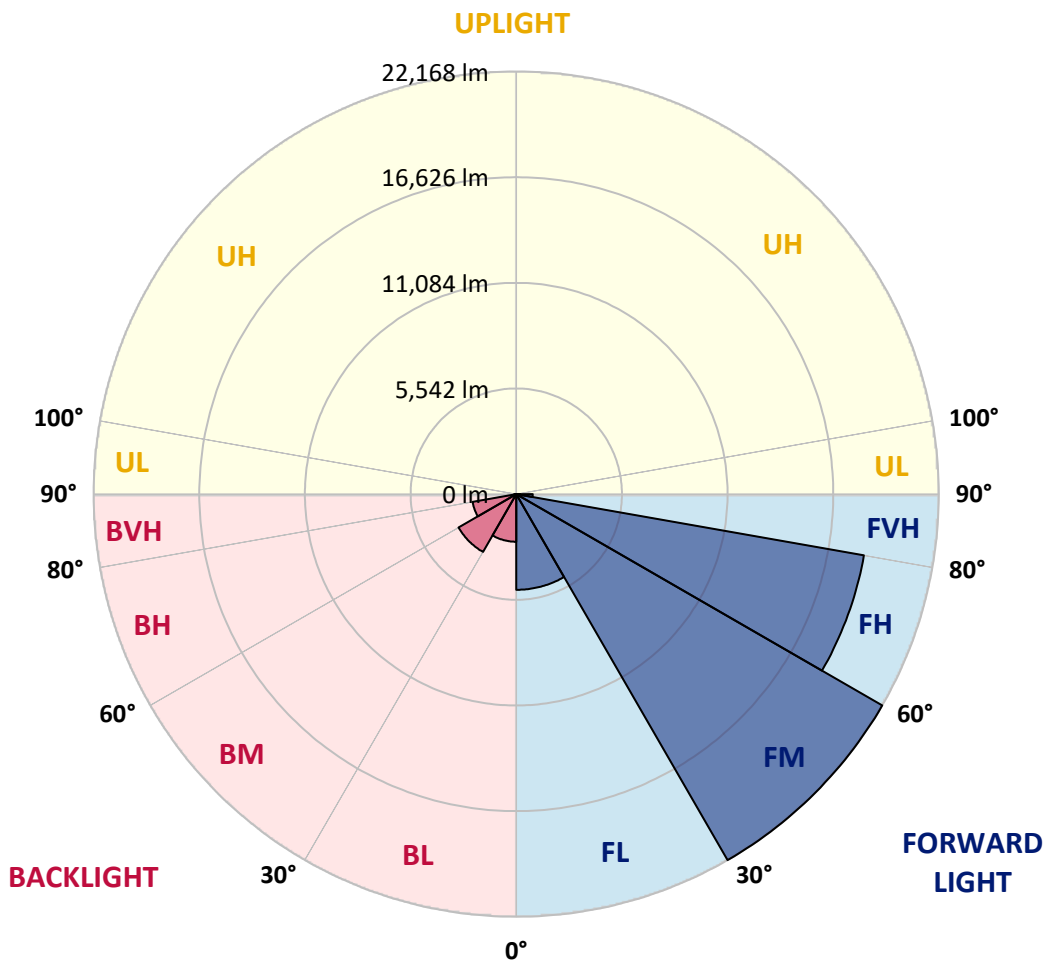
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5019.2	9.1			
FM	(30°-60°)	22168.0	40.3			
FH	(60°-80°)	18517.2	33.7			G5
FVH	(80°-90°)	867.2	1.6			G5
BL	(0°-30°)	2498.3	4.5	B3/2500		
BM	(30°-60°)	3496.3	6.4	B3/5000		
BH	(60°-80°)	2326.1	4.2	B3/2500		G3/2500
BVH	(80°-90°)	115.3	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3
2.5°	15534.8	15559.6	15559.6	15609.1	15442.0	15522.4	15510.1	15435.8	15460.5	15330.6	15200.6
5°	15095.4	15076.8	15175.8	15188.2	15318.2	15355.3	15386.3	15336.8	15349.1	15064.4	14940.6
7.5°	13968.9	13962.8	14129.9	14272.2	14544.5	14798.3	14965.4	14915.9	14984.0	14804.5	14513.6
10°	12632.1	12774.4	12947.7	13090.1	13591.4	13913.2	14346.5	14389.8	14649.8	14606.4	14080.4
12.5°	11629.4	11691.3	11821.3	12229.8	12687.8	13220.1	13839.0	13894.7	14148.4	14272.2	13814.2
15°	10806.3	10862.0	11029.1	11332.4	11846.1	12477.4	13263.4	13405.7	13913.2	13956.6	13467.6
17.5°	10205.9	10249.3	10360.7	10663.9	11084.8	11895.6	12638.3	12892.0	13560.5	13770.9	13108.7
20°	9970.7	9877.9	9939.8	10131.7	10552.5	11177.6	12137.0	12359.8	13213.9	13628.5	12768.3
22.5°	9865.5	9785.1	9822.2	9809.8	10144.0	10589.7	11598.5	11833.7	12885.8	13461.4	12465.0
25°	9946.0	9946.0	9908.9	9877.9	9915.0	10205.9	11016.7	11381.9	12446.4	13319.1	12155.5
27.5°	10379.2	10212.1	10230.7	10100.7	10063.6	10063.6	10756.8	10973.4	12304.1	13238.6	11901.8
30°	10657.7	10738.2	10744.4	10552.5	10360.7	10014.1	10515.4	10725.8	12186.5	13337.7	11753.2
32.5°	11369.5	11332.4	11227.1	11190.0	10905.3	10515.4	10633.0	10775.3	12118.4	13560.5	11796.6
35°	12081.3	12062.7	12068.9	12050.3	11753.2	11177.6	10948.6	11140.5	12242.2	13950.4	11945.1
37.5°	12817.8	12867.3	13077.7	13077.7	12762.1	12137.0	11833.7	11778.0	12694.0	14587.9	12297.9
40°	13554.3	13678.1	13944.2	14365.1	13919.4	13337.7	12848.7	12762.1	13238.6	15442.0	13145.8
42.5°	14259.8	14464.1	14990.2	15615.3	15466.7	14884.9	14235.1	14136.1	14358.9	16710.8	14327.9
45°	15163.5	15336.8	16166.1	17125.4	17329.7	16816.0	16054.7	15974.2	15961.9	18567.5	15955.7
47.5°	16537.5	16723.1	17552.5	18518.0	19149.3	19229.7	18375.6	18289.0	17991.9	21074.1	18338.5
50°	18258.0	18561.3	19260.7	20387.1	21303.1	22163.4	21922.0	21668.3	21086.5	23989.2	21358.8
52.5°	19514.4	19885.8	20832.7	22274.8	23890.2	25258.0	26124.5	26124.5	24787.6	27189.0	24991.9
55°	19848.7	20071.5	21266.0	23351.7	26118.3	29578.0	31391.5	31255.3	29194.3	30555.9	29219.1
57.5°	18518.0	18808.9	20257.1	22441.9	27288.0	33619.6	36621.3	36652.2	34009.5	34467.5	33390.6
60°	14854.0	14946.8	16655.0	19576.3	26161.6	36875.1	43763.6	43881.2	39486.9	37952.0	35513.4
62.5°	10267.8	10564.9	11852.3	14414.6	21674.5	36509.9	50652.1	51233.9	43875.0	39790.2	35847.7
65°	6758.6	6938.1	7625.1	9184.7	15089.2	31645.2	52793.6	54588.5	47229.5	39895.4	34448.9
67.5°	4901.8	4932.8	5137.0	5941.6	9067.1	22757.6	49135.8	51667.2	48485.9	39016.5	31168.6
70°	3961.1	3985.8	4060.1	4573.8	5855.0	14241.3	40074.9	44042.1	44716.7	34851.2	25103.3
72.5°	3218.4	3249.3	3342.2	3824.9	4827.6	7922.1	29305.7	34139.4	36373.7	25784.1	16686.0
75°	2531.4	2556.1	2778.9	3255.5	4536.7	5440.3	19440.2	24174.9	24478.2	15070.6	7810.7
77.5°	1733.0	1776.3	2048.6	2760.4	4270.5	4759.5	12118.4	15485.3	13894.7	5898.3	2686.1
80°	1101.7	1163.6	1324.5	2091.9	3775.4	4542.8	7538.4	9246.6	6084.0	2017.7	1293.5
82.5°	649.9	711.8	872.7	1355.4	2964.6	4214.8	5310.3	5786.9	2853.2	1033.6	779.8
85°	359.0	402.3	526.1	817.0	1739.2	3744.4	4252.0	4152.9	1633.9	550.8	488.9
87.5°	117.6	136.2	191.9	328.0	717.9	1763.9	2549.9	2395.2	847.9	253.8	191.9
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°	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3	15126.3
2.5°	15113.9	15095.4	14816.9	14606.4	14247.5	13950.4	13832.8	13671.9	13665.7	13548.1	13517.1
5°	14748.8	14556.9	14129.9	13721.4	13083.9	12656.8	12266.9	11994.6	11883.2	11641.8	11586.1
7.5°	14278.4	14024.7	13368.6	12601.1	11852.3	11183.8	10577.3	9970.7	9630.3	9512.7	9382.8
10°	13789.5	13343.8	12372.1	11511.9	10465.9	9438.5	8485.3	7631.2	7167.1	6839.0	6696.7
12.5°	13399.5	12805.4	11567.6	10280.2	8900.0	7526.0	6418.2	5520.7	4994.7	4747.1	4635.7
15°	12960.1	12174.1	10688.7	9060.9	7340.4	5780.7	4697.6	3992.0	3781.6	3664.0	3645.4
17.5°	12495.9	11586.1	9735.6	7860.2	5817.8	4351.0	3651.6	3366.9	3274.1	3224.6	3199.8
20°	12062.7	11060.0	8757.7	6523.4	4555.2	3490.7	3162.7	3014.1	3007.9	3032.7	3026.5
22.5°	11450.0	10373.0	7792.2	5285.5	3639.2	3038.9	2828.4	2791.3	2828.4	2859.4	2871.8
25°	11103.4	9809.8	6715.2	4196.3	3007.9	2698.5	2630.4	2618.0	2673.7	2710.9	2704.7
27.5°	10744.4	9228.0	5712.6	3360.7	2636.6	2457.1	2444.7	2457.1	2512.8	2568.5	2562.3
30°	10465.9	8763.9	4771.8	2809.9	2351.9	2283.8	2271.4	2283.8	2314.7	2320.9	2320.9
32.5°	10236.9	8213.0	3973.4	2438.5	2178.6	2122.9	2135.3	2129.1	2135.3	2141.5	2147.6
35°	10100.7	7885.0	3317.4	2209.5	2036.2	1992.9	1986.7	1968.2	1974.3	1980.5	1974.3
37.5°	10391.6	7724.1	2797.5	2048.6	1937.2	1900.1	1887.7	1875.3	1856.8	1856.8	1856.8
40°	10831.0	7637.4	2481.9	1943.4	1862.9	1819.6	1782.5	1770.1	1770.1	1776.3	1782.5
42.5°	11703.7	7779.8	2265.2	1862.9	1770.1	1720.6	1683.5	1689.6	1708.2	1726.8	1714.4
45°	12966.3	8213.0	2166.2	1801.0	1714.4	1646.3	1621.6	1615.4	1633.9	1664.9	1689.6
47.5°	14618.8	8887.6	2129.1	1745.3	1677.3	1584.4	1553.5	1572.0	1596.8	1640.1	1621.6
50°	17323.5	10404.0	2160.0	1695.8	1621.6	1553.5	1516.3	1497.8	1516.3	1547.3	1559.7
52.5°	20857.5	13158.2	2277.6	1671.1	1584.4	1528.7	1466.8	1435.9	1454.5	1479.2	1479.2
55°	25084.7	16921.2	2605.6	1640.1	1522.5	1491.6	1423.5	1361.6	1374.0	1374.0	1367.8
57.5°	28810.6	19762.0	2995.6	1596.8	1485.4	1442.1	1355.4	1281.2	1268.8	1275.0	1281.2
60°	30481.6	20517.1	3181.2	1584.4	1485.4	1380.2	1262.6	1188.3	1169.8	1157.4	1157.4
62.5°	30190.8	19211.2	2803.7	1528.7	1522.5	1330.7	1175.9	1095.5	1070.7	1046.0	1052.2
65°	28433.0	17348.2	2209.5	1454.5	1528.7	1299.7	1089.3	1008.8	965.5	934.6	928.4
67.5°	25220.9	14810.7	1751.5	1398.8	1466.8	1244.0	1015.0	922.2	885.1	854.1	841.7
70°	19731.1	11610.9	1522.5	1324.5	1318.3	1107.9	928.4	847.9	792.2	755.1	755.1
72.5°	12793.0	7340.4	1305.9	1175.9	1138.8	928.4	804.6	755.1	711.8	680.8	680.8
75°	5793.1	3410.2	1052.2	984.1	928.4	742.7	680.8	656.1	618.9	588.0	588.0
77.5°	2079.6	1454.5	786.0	773.6	693.2	575.6	550.8	532.3	507.5	476.6	476.6
80°	1163.6	922.2	588.0	563.2	482.8	427.1	396.1	396.1	383.7	365.2	359.0
82.5°	736.5	600.3	433.2	377.5	315.6	284.7	272.3	266.1	259.9	235.2	229.0
85°	464.2	408.5	284.7	222.8	185.7	142.4	136.2	130.0	117.6	105.2	105.2
87.5°	210.4	235.2	111.4	68.1	49.5	30.9	18.6	6.2	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)