

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: P480461

Luminaire Tested: **IFLD-S-SA3E-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480461
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

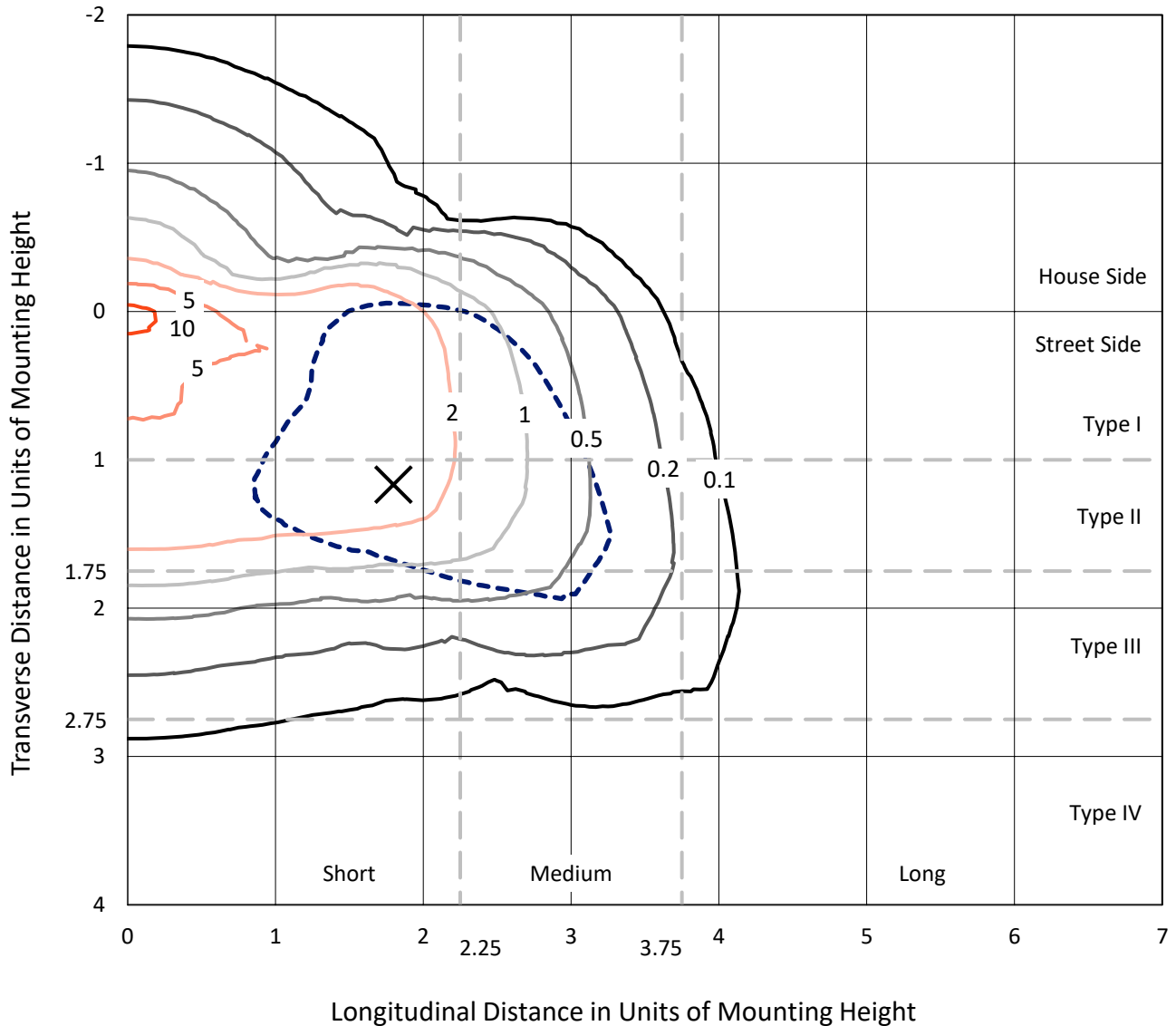
Lumens per Lamp: N/A
Luminaire Lumens: 26250.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

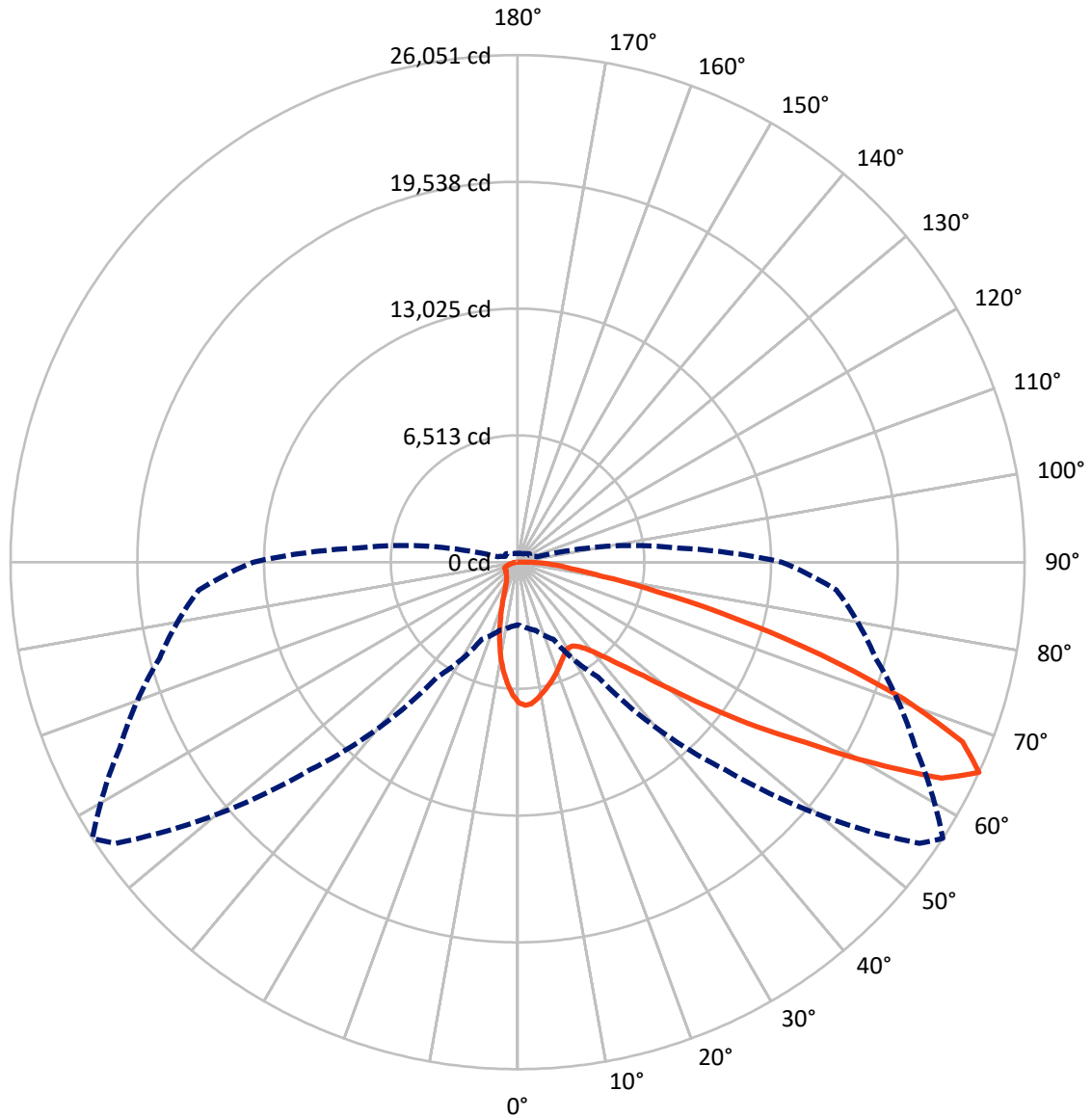
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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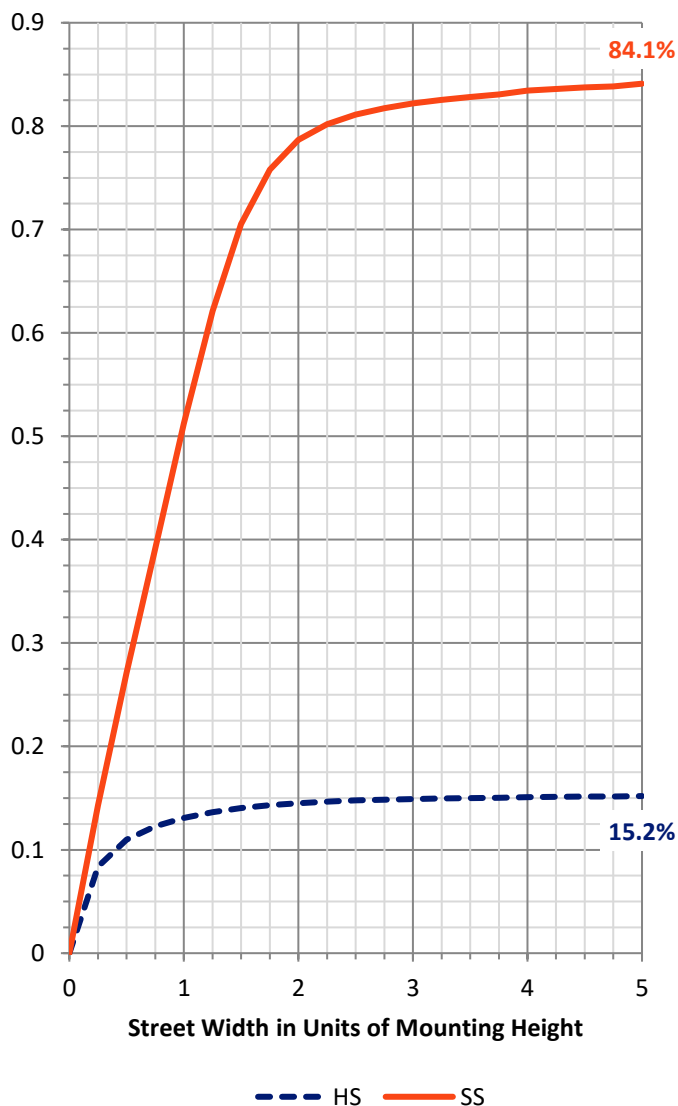
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4025.8	0.0	4025.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	22224.9	0.0	22224.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	26250.7	0.0	26250.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.5	2.3
10°-20°	1301.0	5.0
20°-30°	1682.0	6.4
30°-40°	2263.5	8.6
40°-50°	3609.2	13.7
50°-60°	6374.8	24.3
60°-70°	7013.1	26.7
70°-80°	2933.7	11.2
80°-90°	468.9	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°	26250.7	100.0
0°-180°	26250.7	100.0

Coefficient of Utilization



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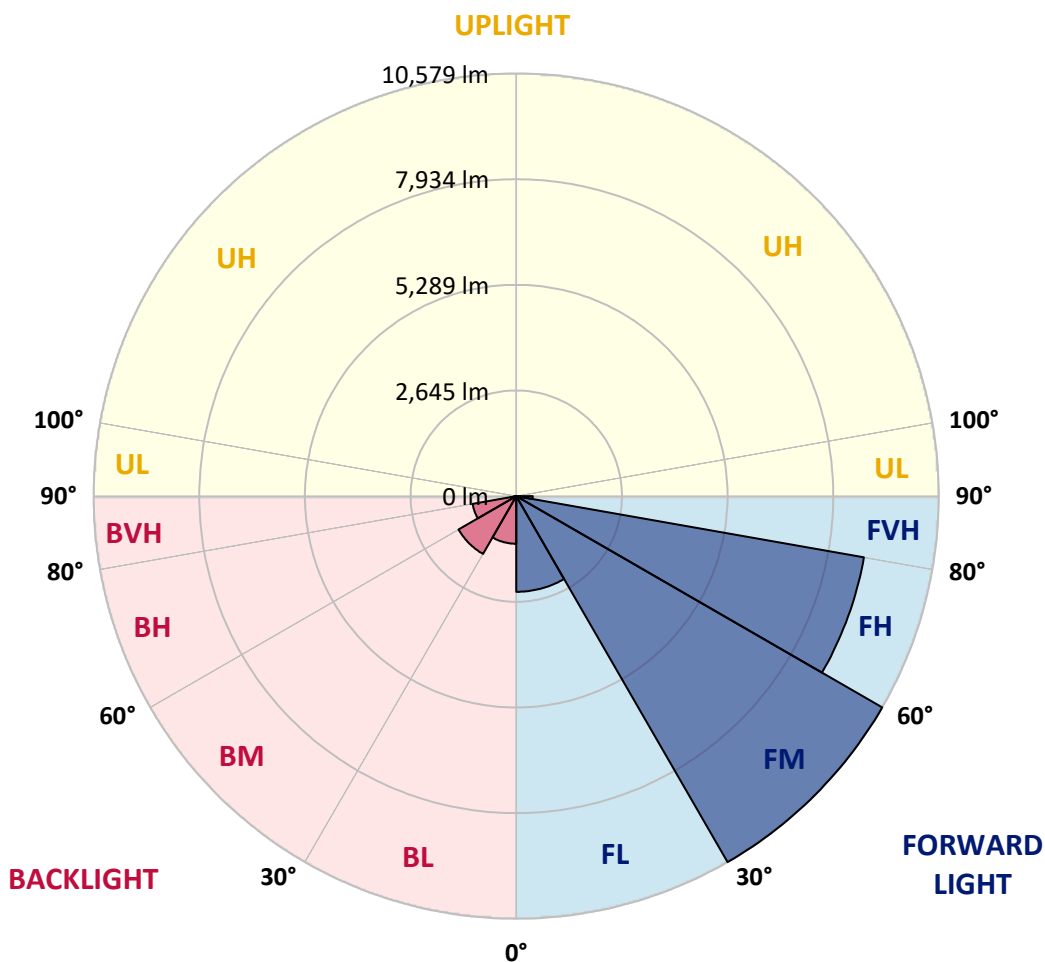
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2395.3	9.1			
FM (30°-60°)	10579.0	40.3			
FH (60°-80°)	8836.8	33.7			G4/12000
FVH (80°-90°)	413.9	1.6			G3/500
BL (0°-30°)	1192.2	4.5	B3/2500		
BM (30°-60°)	1668.5	6.4	B2/2500		
BH (60°-80°)	1110.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	55.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6
2.5°	7413.5	7425.3	7425.3	7448.9	7369.2	7407.6	7401.7	7366.2	7378.1	7316.0	7254.0
5°	7203.8	7194.9	7242.2	7248.1	7310.1	7327.8	7342.6	7319.0	7324.9	7189.0	7130.0
7.5°	6666.2	6663.3	6743.0	6811.0	6940.9	7062.0	7141.8	7118.1	7150.6	7065.0	6926.2
10°	6028.3	6096.2	6178.9	6246.8	6486.1	6639.7	6846.4	6867.1	6991.1	6970.5	6719.4
12.5°	5549.8	5579.3	5641.3	5836.3	6054.8	6308.9	6604.2	6630.8	6751.9	6811.0	6592.4
15°	5157.0	5183.5	5263.3	5408.0	5653.2	5954.4	6329.5	6397.5	6639.7	6660.3	6427.0
17.5°	4870.5	4891.1	4944.3	5089.0	5289.9	5676.8	6031.2	6152.3	6471.3	6571.7	6255.7
20°	4758.2	4713.9	4743.5	4835.0	5035.9	5334.2	5792.0	5898.3	6305.9	6503.8	6093.2
22.5°	4708.0	4669.6	4687.3	4681.4	4840.9	5053.6	5535.0	5647.3	6149.4	6424.0	5948.5
25°	4746.4	4746.4	4728.7	4713.9	4731.6	4870.5	5257.4	5431.6	5939.7	6356.1	5800.8
27.5°	4953.2	4873.4	4882.3	4820.3	4802.5	4802.5	5133.3	5236.7	5871.7	6317.7	5679.7
30°	5086.1	5124.5	5127.4	5035.9	4944.3	4778.9	5018.1	5118.6	5815.6	6365.0	5608.9
32.5°	5425.7	5408.0	5357.8	5340.1	5204.2	5018.1	5074.3	5142.2	5783.1	6471.3	5629.5
35°	5765.4	5756.5	5759.5	5750.6	5608.9	5334.2	5224.9	5316.5	5842.2	6657.4	5700.4
37.5°	6116.9	6140.5	6240.9	6240.9	6090.3	5792.0	5647.3	5620.7	6057.8	6961.6	5868.8
40°	6468.4	6527.4	6654.4	6855.3	6642.6	6365.0	6131.6	6090.3	6317.7	7369.2	6273.4
42.5°	6805.1	6902.5	7153.6	7451.9	7381.0	7103.4	6793.2	6746.0	6852.3	7974.7	6837.5
45°	7236.3	7319.0	7714.8	8172.6	8270.0	8024.9	7661.6	7623.2	7617.3	8860.8	7614.3
47.5°	7892.0	7980.6	8376.4	8837.1	9138.4	9176.8	8769.2	8727.8	8586.1	10057.0	8751.5
50°	8713.1	8857.8	9191.6	9729.1	10166.2	10576.8	10461.6	10340.5	10062.9	11448.1	10192.8
52.5°	9312.7	9489.9	9941.8	10630.0	11400.8	12053.6	12467.1	12467.1	11829.1	12975.1	11926.6
55°	9472.1	9578.5	10148.5	11143.9	12464.1	14115.2	14980.6	14915.6	13932.1	14581.8	13943.9
57.5°	8837.1	8975.9	9667.1	10709.7	13022.4	16043.9	17476.4	17491.1	16230.0	16448.5	15934.6
60°	7088.6	7132.9	7948.1	9342.2	12484.8	17597.5	20884.8	20940.9	18843.9	18111.4	16947.7
62.5°	4900.0	5041.8	5656.1	6878.9	10343.5	17423.2	24172.1	24449.8	20938.0	18988.6	17107.2
65°	3225.3	3311.0	3638.8	4383.1	7200.8	15101.7	25194.1	26050.6	22538.8	19038.8	16439.7
67.5°	2339.2	2354.0	2451.5	2835.4	4327.0	10860.3	23448.5	24656.5	23138.4	18619.4	14874.3
70°	1890.3	1902.1	1937.6	2182.7	2794.1	6796.2	19124.5	21017.7	21339.7	16631.6	11979.7
72.5°	1535.9	1550.6	1594.9	1825.3	2303.8	3780.6	13985.2	16292.0	17358.2	12304.6	7962.9
75°	1208.0	1219.8	1326.2	1553.6	2165.0	2596.2	9277.2	11536.7	11681.4	7192.0	3727.4
77.5°	827.0	847.7	977.6	1317.3	2038.0	2271.3	5783.1	7389.9	6630.8	2814.8	1281.9
80°	525.7	555.3	632.1	998.3	1801.7	2167.9	3597.5	4412.7	2903.4	962.9	617.3
82.5°	310.1	339.7	416.5	646.8	1414.8	2011.4	2534.2	2761.6	1361.6	493.2	372.2
85°	171.3	192.0	251.1	389.9	830.0	1786.9	2029.1	1981.9	779.7	262.9	233.3
87.5°	56.1	65.0	91.6	156.5	342.6	841.8	1216.9	1143.0	404.6	121.1	91.6
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°	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6	7218.6
2.5°	7212.7	7203.8	7070.9	6970.5	6799.2	6657.4	6601.3	6524.5	6521.5	6465.4	6450.6
5°	7038.4	6946.8	6743.0	6548.1	6243.9	6040.1	5854.0	5724.0	5670.9	5555.7	5529.1
7.5°	6813.9	6692.8	6379.7	6013.5	5656.1	5337.1	5047.7	4758.2	4595.8	4539.7	4477.6
10°	6580.6	6367.9	5904.2	5493.7	4994.5	4504.2	4049.4	3641.8	3420.3	3263.7	3195.8
12.5°	6394.5	6111.0	5520.3	4905.9	4247.3	3591.6	3062.9	2634.6	2383.5	2265.4	2212.2
15°	6184.8	5809.7	5100.8	4324.0	3503.0	2758.6	2241.8	1905.1	1804.6	1748.5	1739.7
17.5°	5963.3	5529.1	4646.0	3751.1	2776.4	2076.4	1742.6	1606.8	1562.4	1538.8	1527.0
20°	5756.5	5278.1	4179.3	3113.1	2173.8	1665.8	1509.3	1438.4	1435.4	1447.3	1444.3
22.5°	5464.1	4950.2	3718.6	2522.4	1736.7	1450.2	1349.8	1332.1	1349.8	1364.6	1370.5
25°	5298.7	4681.4	3204.6	2002.5	1435.4	1287.8	1255.3	1249.4	1275.9	1293.7	1290.7
27.5°	5127.4	4403.8	2726.2	1603.8	1258.2	1172.6	1166.7	1172.6	1199.2	1225.7	1222.8
30°	4994.5	4182.3	2277.2	1340.9	1122.4	1089.9	1084.0	1089.9	1104.6	1107.6	1107.6
32.5°	4885.2	3919.4	1896.2	1163.7	1039.7	1013.1	1019.0	1016.0	1019.0	1021.9	1024.9
35°	4820.3	3762.9	1583.1	1054.4	971.7	951.1	948.1	939.2	942.2	945.1	942.2
37.5°	4959.1	3686.1	1335.0	977.6	924.5	906.8	900.8	894.9	886.1	886.1	886.1
40°	5168.8	3644.7	1184.4	927.4	889.0	868.4	850.6	844.7	844.7	847.7	850.6
42.5°	5585.2	3712.7	1081.0	889.0	844.7	821.1	803.4	806.3	815.2	824.1	818.1
45°	6187.8	3919.4	1033.8	859.5	818.1	785.7	773.8	770.9	779.7	794.5	806.3
47.5°	6976.4	4241.3	1016.0	832.9	800.4	756.1	741.3	750.2	762.0	782.7	773.8
50°	8267.1	4965.0	1030.8	809.3	773.8	741.3	723.6	714.8	723.6	738.4	744.3
52.5°	9953.6	6279.3	1086.9	797.5	756.1	729.5	700.0	685.2	694.1	705.9	705.9
55°	11970.9	8075.1	1243.5	782.7	726.6	711.8	679.3	649.8	655.7	655.7	652.7
57.5°	13748.9	9430.8	1429.5	762.0	708.9	688.2	646.8	611.4	605.5	608.4	611.4
60°	14546.4	9791.1	1518.1	756.1	708.9	658.6	602.5	567.1	558.2	552.3	552.3
62.5°	14407.6	9167.9	1338.0	729.5	726.6	635.0	561.2	522.8	511.0	499.2	502.1
65°	13568.8	8278.9	1054.4	694.1	729.5	620.3	519.8	481.4	460.8	446.0	443.0
67.5°	12035.9	7067.9	835.9	667.5	700.0	593.7	484.4	440.1	422.4	407.6	401.7
70°	9416.0	5540.9	726.6	632.1	629.1	528.7	443.0	404.6	378.1	360.3	360.3
72.5°	6105.1	3503.0	623.2	561.2	543.5	443.0	384.0	360.3	339.7	324.9	324.9
75°	2764.6	1627.4	502.1	469.6	443.0	354.4	324.9	313.1	295.4	280.6	280.6
77.5°	992.4	694.1	375.1	369.2	330.8	274.7	262.9	254.0	242.2	227.4	227.4
80°	555.3	440.1	280.6	268.8	230.4	203.8	189.0	189.0	183.1	174.3	171.3
82.5°	351.5	286.5	206.8	180.2	150.6	135.9	130.0	127.0	124.1	112.2	109.3
85°	221.5	194.9	135.9	106.3	88.6	67.9	65.0	62.0	56.1	50.2	50.2
87.5°	100.4	112.2	53.2	32.5	23.6	14.8	8.9	3.0	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)