

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: P480172

Luminaire Tested: **IFLD-L-SA7C-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480172
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

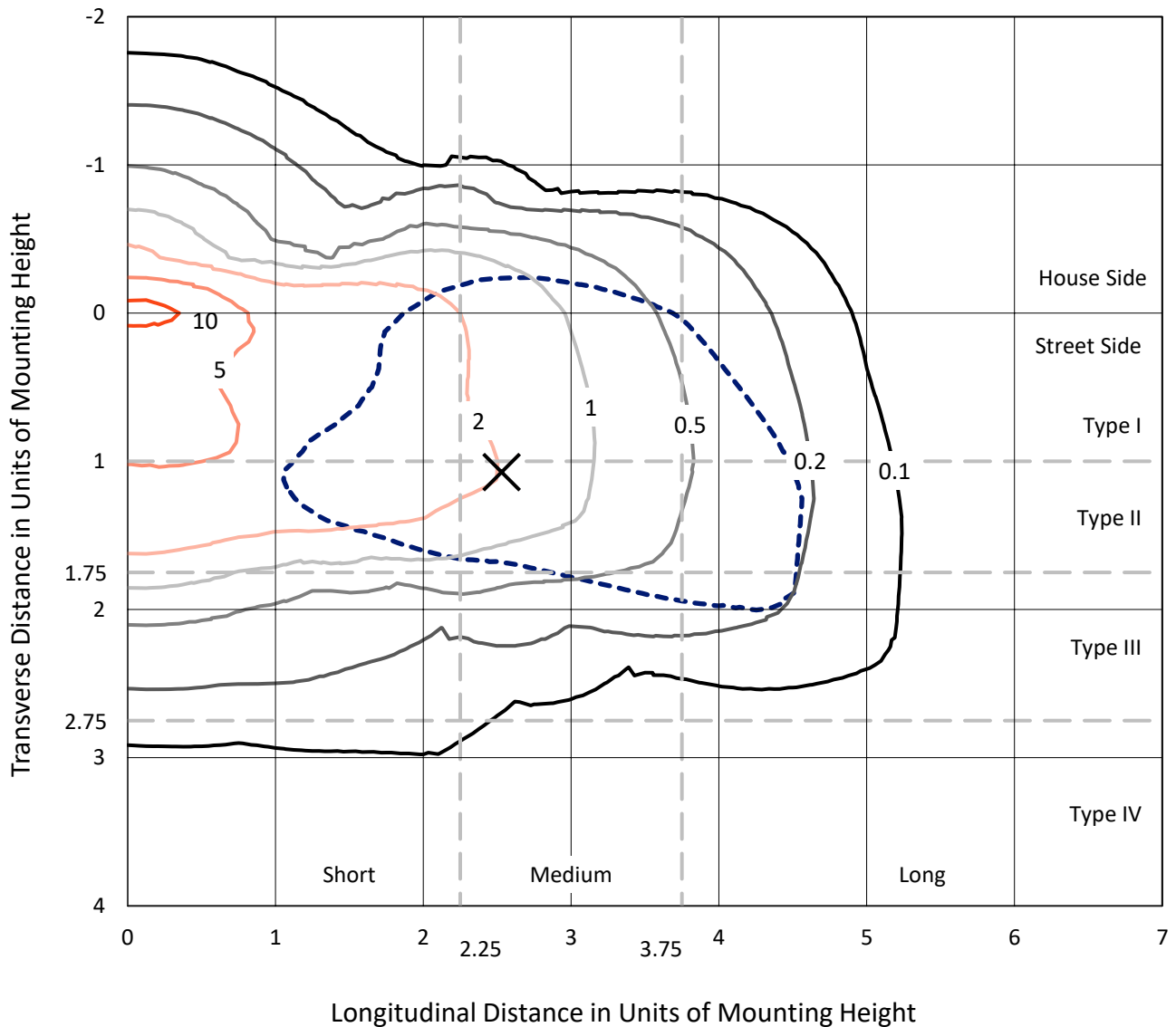
Lumens per Lamp: N/A
Luminaire Lumens: 45212.6 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
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

REPORT NUMBER: P480172
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

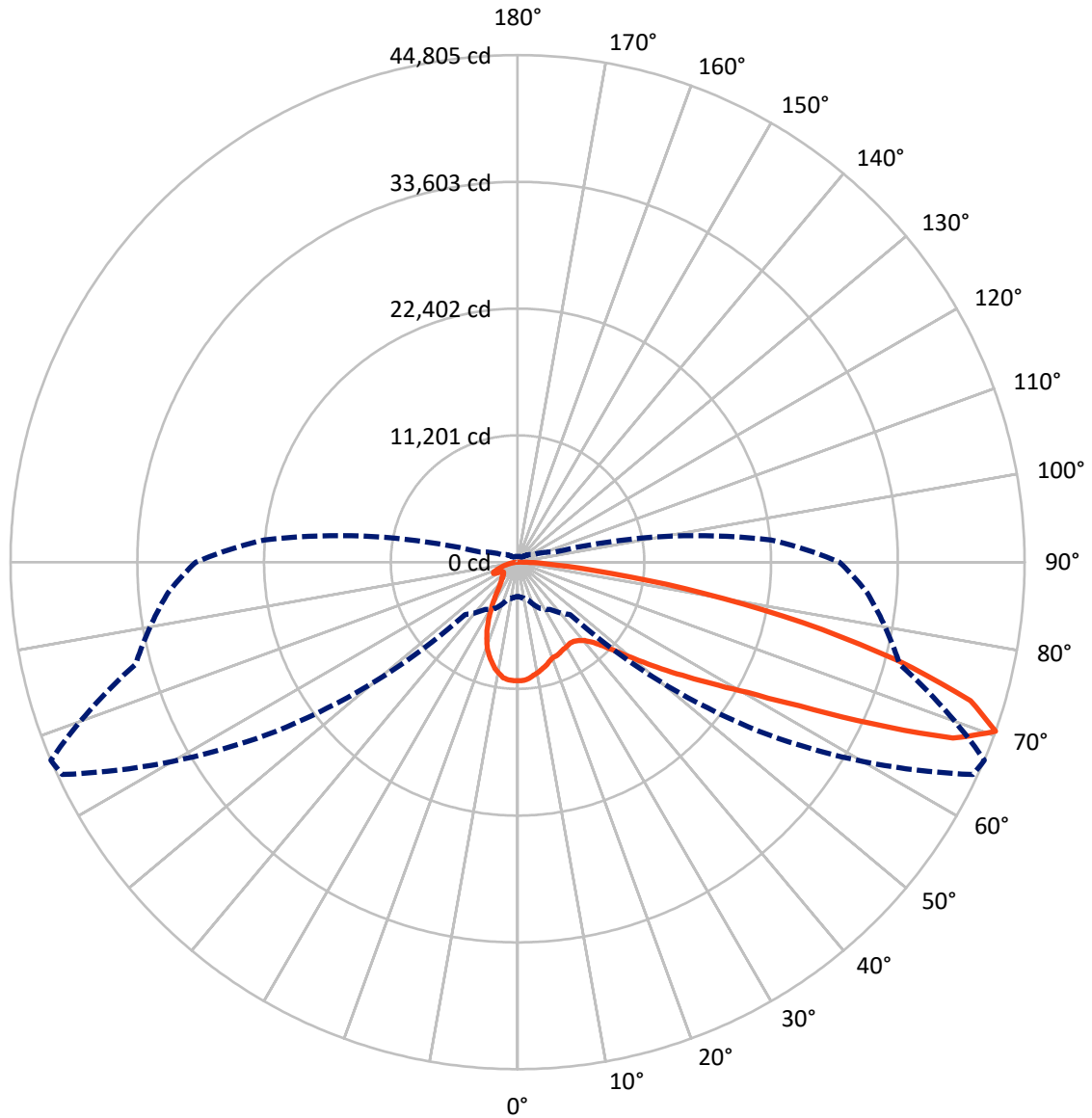
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P480172
CATALOG NUMBER: IFLD-L-SA7C-750-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P480172
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SL2

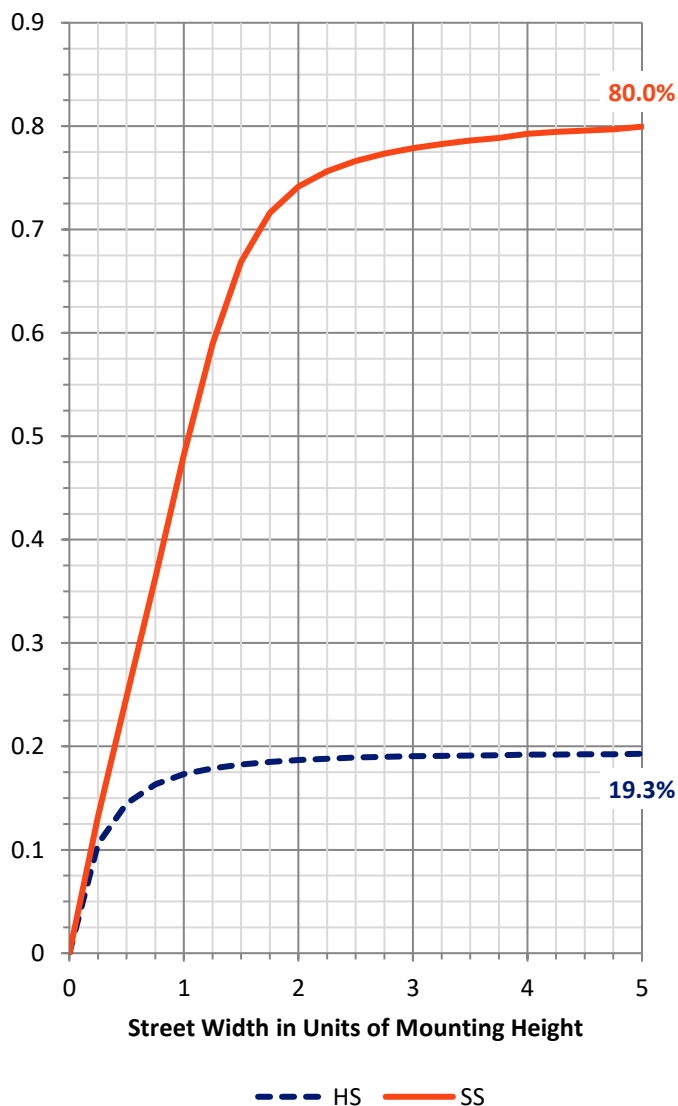
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8805.6	0.0	8805.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	36407.0	0.0	36407.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	45212.6	0.0	45212.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	913.2	2.0
10°-20°	2187.2	4.8
20°-30°	2953.6	6.5
30°-40°	3952.2	8.7
40°-50°	5811.6	12.9
50°-60°	9058.8	20.0
60°-70°	11158.9	24.7
70°-80°	7884.8	17.4
80°-90°	1292.4	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°	45212.6	100.0
0°-180°	45212.6	100.0

Coefficient of Utilization



REPORT NUMBER: P480172

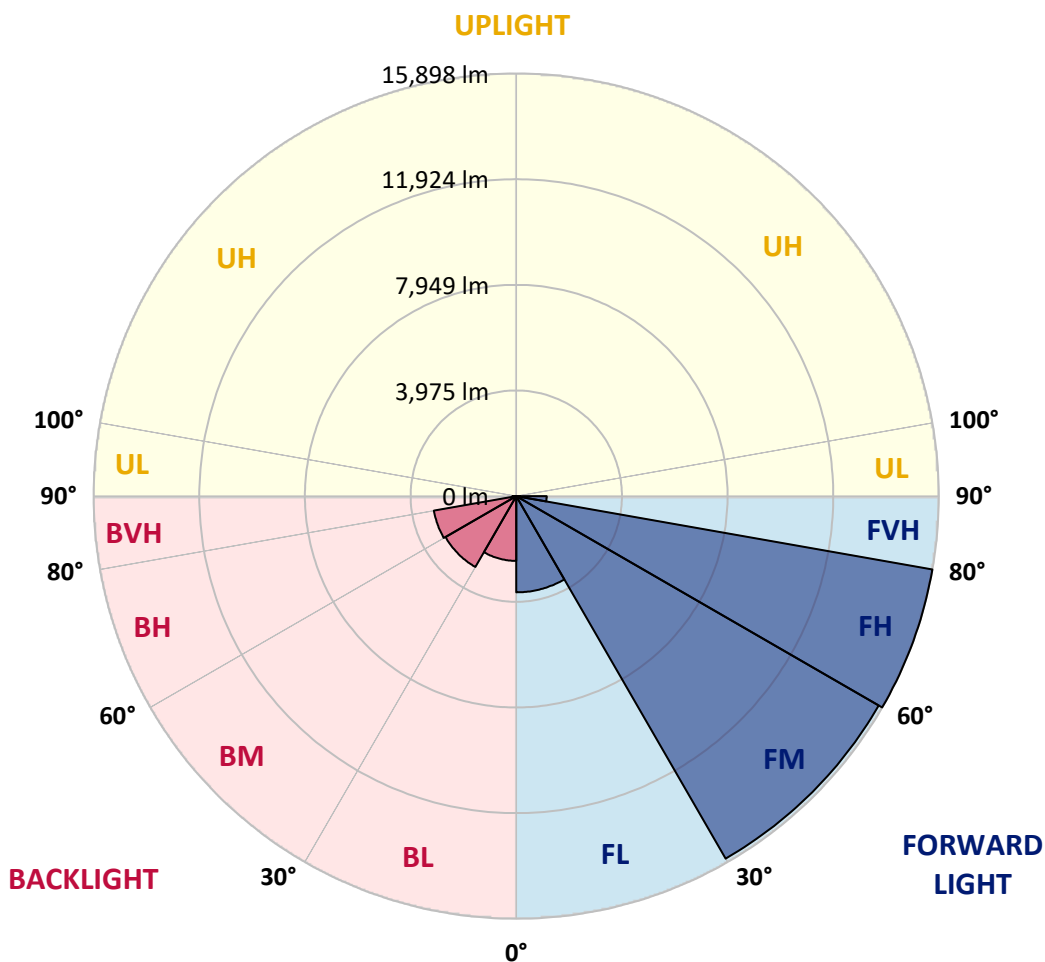
CATALOG NUMBER: IFLD-L-SA7C-750-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3618.9	8.0			
FM	(30°-60°)	15746.6	34.8			
FH	(60°-80°)	15898.3	35.2			G5
FVH	(80°-90°)	1143.3	2.5			G5
BL	(0°-30°)	2435.0	5.4	B3/2500		
BM	(30°-60°)	3076.0	6.8	B3/5000		
BH	(60°-80°)	3145.5	7.0	B4/5000		G4/5000
BVH	(80°-90°)	149.1	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





REPORT NUMBER: P480172
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6
2.5°	9745.8	9855.9	9895.9	9956.0	10111.2	10226.3	10296.4	10376.5	10471.6	10551.7	10601.7
5°	9065.0	9125.1	9220.2	9285.3	9480.5	9790.8	10001.1	10341.4	10331.4	10456.6	10646.8
7.5°	8404.3	8464.4	8509.4	8639.6	8919.9	9200.2	9585.6	10136.2	10096.2	10386.5	10681.8
10°	7993.8	7948.8	7963.8	8184.1	8404.3	8719.6	9205.2	9765.8	9911.0	10361.5	10781.9
12.5°	7608.4	7558.4	7678.5	7818.6	8088.9	8374.3	8954.9	9460.5	9680.7	10271.4	10827.0
15°	7368.2	7333.1	7483.3	7543.3	7863.7	8204.1	8614.5	9230.2	9470.5	10161.2	10756.9
17.5°	7233.0	7263.0	7318.1	7448.2	7653.5	7943.8	8394.3	9075.0	9180.2	10026.1	10741.9
20°	7258.0	7293.1	7298.1	7353.1	7493.3	7718.5	8179.0	8909.9	8979.9	10001.1	10781.9
22.5°	7458.3	7408.2	7428.2	7393.2	7433.2	7608.4	8013.9	8689.6	8959.9	9790.8	10696.8
25°	7758.6	7688.5	7678.5	7558.4	7483.3	7533.3	7983.8	8634.6	8809.7	9725.8	10691.8
27.5°	8289.2	8184.1	8184.1	8003.9	7698.5	7618.4	7898.7	8544.5	8699.6	9665.7	10576.7
30°	8799.7	8799.7	8804.7	8549.5	8209.1	7813.6	7933.8	8509.4	8609.5	9485.5	10421.5
32.5°	9420.4	9405.4	9380.4	9255.2	8729.7	8139.0	8104.0	8464.4	8514.4	9425.4	10376.5
35°	10026.1	9986.0	10181.3	10071.1	9535.5	8774.7	8279.2	8484.4	8594.5	9335.3	10236.3
37.5°	10481.6	10506.6	10912.1	10982.1	10521.6	9495.5	8774.7	8684.6	8789.7	9465.5	10236.3
40°	11072.2	11172.4	11552.8	11788.0	11507.7	10446.6	9560.6	9020.0	9095.1	9755.8	10456.6
42.5°	11848.1	11933.2	12418.7	12724.1	12644.0	11657.9	10336.4	9720.8	9660.7	10241.3	10786.9
45°	12874.2	12889.3	13379.8	13800.3	13965.4	12924.3	11567.8	10606.7	10556.7	11077.3	11392.6
47.5°	14095.6	14080.6	14385.9	14836.4	15281.9	14436.0	12984.4	11953.2	11773.0	12273.6	12398.7
50°	15276.9	15211.8	15281.9	15857.5	16713.5	16328.1	14706.3	13600.0	13419.8	13695.1	13910.4
52.5°	15927.6	16007.7	15817.5	16578.3	18235.2	18565.5	16988.8	15567.2	15412.0	15547.2	15922.6
55°	15472.1	15637.3	15512.2	16233.0	18900.9	21293.6	19942.1	17844.7	17644.5	17594.5	18210.1
57.5°	13535.0	13835.3	13860.3	15001.6	18670.7	23405.9	24096.7	20532.7	20232.4	19721.8	20357.5
60°	10391.5	10691.8	10922.1	12273.6	16698.5	24667.3	28912.0	24356.9	23365.8	22044.4	22424.8
62.5°	7283.1	7488.3	7718.5	8549.5	12874.2	23926.5	33076.6	29742.9	27915.9	24492.1	24967.6
65°	5305.9	5466.0	5701.3	6191.8	7908.7	19796.9	35008.7	36140.0	34408.1	27605.5	27545.5
67.5°	3994.4	4094.5	4404.9	5190.7	5481.1	12228.5	33006.5	42897.5	41495.9	31064.4	29617.8
70°	3023.3	3108.4	3398.8	4475.0	5120.7	6557.3	26038.8	44404.1	44804.6	34943.7	31009.3
72.5°	2082.3	2177.4	2502.8	3729.1	4875.4	5200.8	16343.1	40339.6	41856.3	36540.4	29517.7
75°	1276.4	1341.5	1531.7	2828.1	4840.4	5085.6	8994.9	33056.6	34663.3	33762.3	25823.6
77.5°	901.0	896.0	931.0	1656.8	4194.6	5115.7	5546.1	24221.8	25783.5	24882.5	17524.4
80°	655.7	660.7	695.8	991.1	2848.2	5200.8	4369.8	16222.9	16688.5	12974.4	6912.6
82.5°	395.4	415.5	500.6	670.7	1711.9	4695.2	4039.5	9015.0	8434.3	4164.6	1902.1
85°	210.2	210.2	295.3	425.5	911.0	3503.9	3889.3	4289.7	3594.0	1291.4	705.8
87.5°	50.1	50.1	85.1	170.2	365.4	1676.9	2652.9	1706.9	1366.5	435.5	290.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480172
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6	10466.6
2.5°	10581.7	10521.6	10596.7	10446.6	10326.4	10331.4	10146.2	10136.2	10111.2	9981.0	10026.1
5°	10701.8	10651.8	10566.7	10401.5	10136.2	9870.9	9710.7	9505.5	9420.4	9375.4	9395.4
7.5°	10817.0	10726.9	10481.6	10251.3	9840.9	9340.3	9050.0	8774.7	8424.3	8384.3	8314.2
10°	10847.0	10656.8	10341.4	9850.9	9305.3	8749.7	8088.9	7578.4	7308.1	7097.9	7017.8
12.5°	10801.9	10721.9	10116.2	9485.5	8659.6	7788.6	7017.8	6297.0	5796.4	5536.1	5466.0
15°	10796.9	10656.8	9865.9	8929.9	7873.7	6737.5	5641.2	4775.3	4249.7	4034.5	4034.5
17.5°	10801.9	10466.6	9570.6	8369.3	6947.7	5411.0	4204.7	3493.9	3203.5	3173.5	3198.5
20°	10701.8	10326.4	9260.2	7708.5	5786.4	4064.5	3053.4	2763.1	2763.1	2803.1	2818.1
22.5°	10611.7	10116.2	8769.7	6892.6	4605.1	2943.3	2482.7	2397.7	2492.8	2562.8	2592.9
25°	10486.6	9941.0	8269.1	6046.7	3503.9	2372.6	2157.4	2177.4	2267.5	2392.6	2382.6
27.5°	10306.4	9635.7	7673.5	5065.6	2607.9	2047.3	1992.2	2002.2	2097.3	2152.4	2142.4
30°	10101.2	9325.3	7122.9	4089.5	2067.3	1877.1	1872.1	1897.1	1912.1	1942.1	1937.1
32.5°	9840.9	8914.9	6537.2	3178.5	1862.1	1782.0	1761.9	1746.9	1761.9	1756.9	1741.9
35°	9655.7	8694.6	5941.6	2422.7	1746.9	1696.9	1681.9	1656.8	1636.8	1606.8	1601.8
37.5°	9605.6	8474.4	5315.9	1977.2	1656.8	1631.8	1581.7	1536.7	1511.7	1496.7	1486.6
40°	9575.6	8329.2	4705.2	1736.9	1581.7	1556.7	1496.7	1436.6	1411.6	1396.5	1401.6
42.5°	9680.7	8249.1	4084.5	1616.8	1516.7	1471.6	1406.6	1336.5	1331.5	1321.5	1336.5
45°	10051.1	8349.2	3508.9	1531.7	1451.6	1376.5	1291.4	1256.4	1251.4	1241.4	1251.4
47.5°	10892.0	8599.5	3018.3	1476.6	1381.5	1316.5	1226.4	1176.3	1171.3	1166.3	1166.3
50°	12053.3	9370.4	2607.9	1411.6	1336.5	1246.4	1161.3	1106.2	1096.2	1076.2	1076.2
52.5°	13875.3	10666.8	2362.6	1376.5	1256.4	1181.3	1091.2	1031.1	1006.1	986.1	986.1
55°	15927.6	12273.6	2317.6	1316.5	1171.3	1101.2	1021.1	961.1	936.0	911.0	901.0
57.5°	18265.2	14400.9	2637.9	1276.4	1111.2	1021.1	931.0	876.0	855.9	830.9	820.9
60°	20442.6	16523.3	3634.0	1216.3	1056.2	946.0	855.9	800.9	775.9	750.8	750.8
62.5°	22960.4	19151.2	5320.9	1216.3	1006.1	866.0	775.9	735.8	720.8	695.8	690.8
65°	25938.7	21869.2	6552.2	1291.4	991.1	795.9	700.8	660.7	645.7	630.7	625.7
67.5°	28206.2	23430.9	5636.2	1491.7	1056.2	735.8	625.7	600.7	590.7	575.6	565.6
70°	28446.5	22479.9	3398.8	1611.8	1121.2	675.7	560.6	535.6	535.6	520.6	510.6
72.5°	26289.1	19947.1	2287.5	1436.6	1016.1	605.7	495.5	475.5	465.5	455.5	450.5
75°	21999.3	16918.7	1807.0	1146.3	780.9	500.6	430.5	410.5	395.4	390.4	380.4
77.5°	14776.3	10997.2	1336.5	896.0	575.6	405.4	360.4	340.4	325.4	320.4	305.3
80°	5676.3	4189.6	861.0	650.7	405.4	320.4	285.3	265.3	255.3	240.3	230.3
82.5°	1671.8	1356.5	480.5	400.4	260.3	220.2	205.2	190.2	175.2	160.2	155.2
85°	690.8	620.7	295.3	210.2	160.2	130.1	120.1	105.1	90.1	80.1	70.1
87.5°	320.4	265.3	135.1	80.1	55.1	30.0	15.0	5.0	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)