

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: P484038

Luminaire Tested: **IFLD-L-SA8C-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484038
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

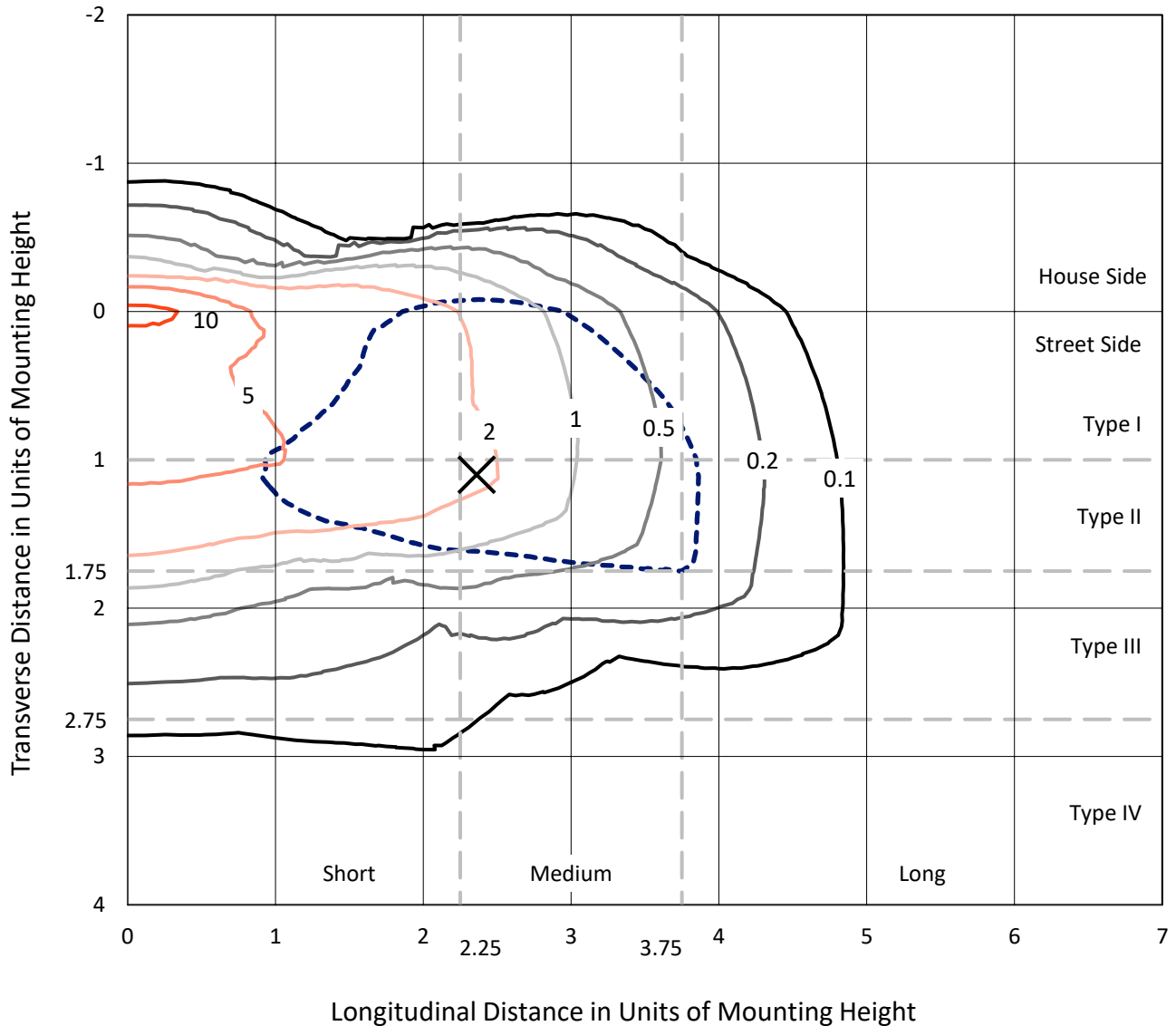
Lumens per Lamp: N/A
Luminaire Lumens: 41699.1 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

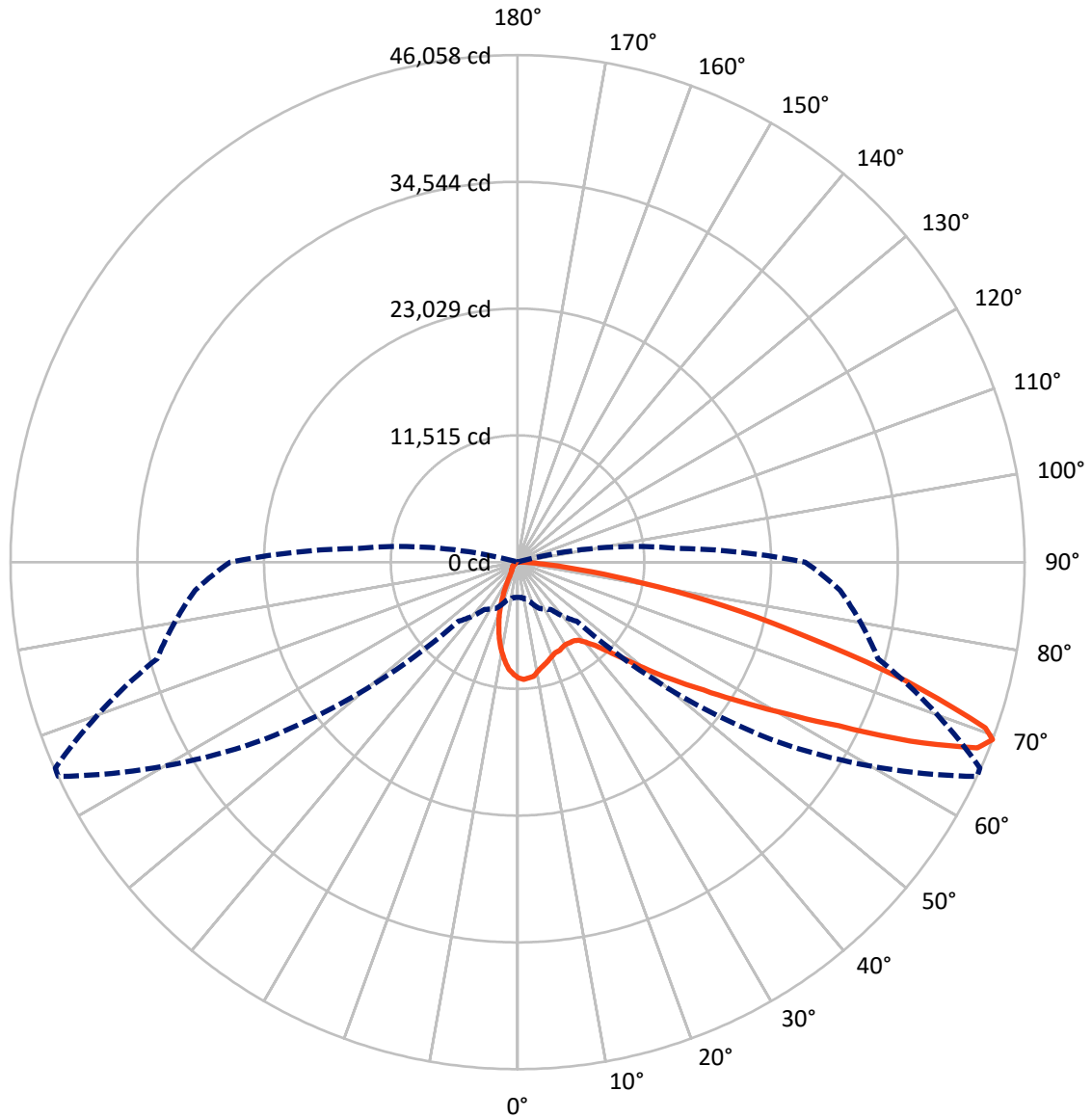
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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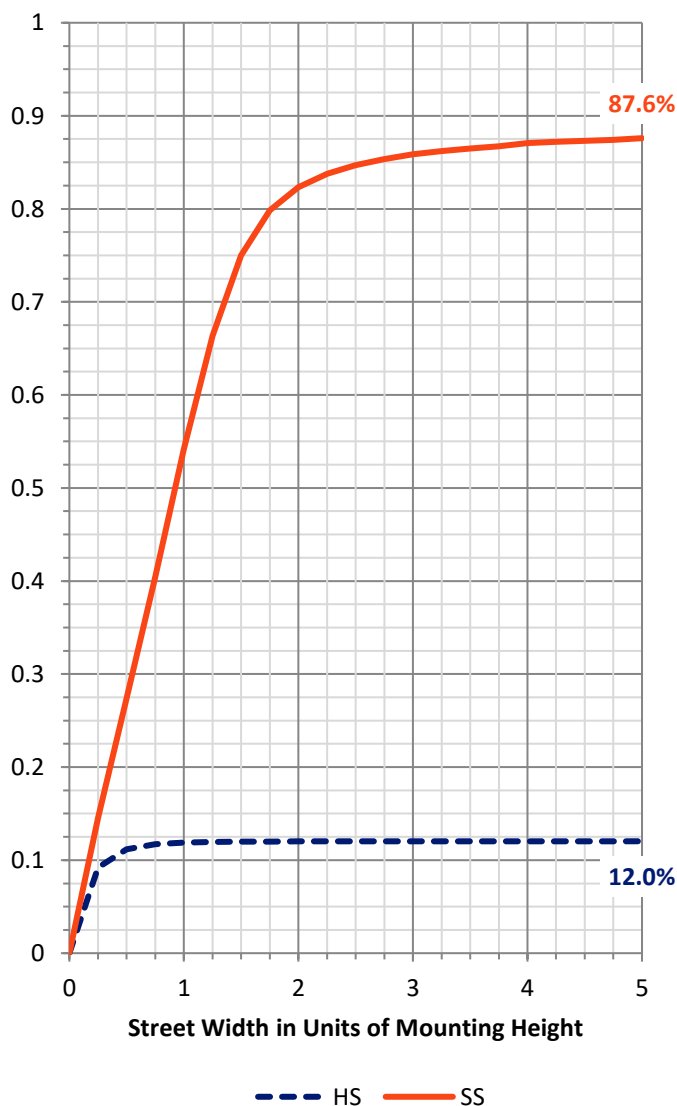
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5058.4	0.0	5058.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	36640.8	0.0	36640.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	41699.1	0.0	41699.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.3	2.1
10°-20°	1882.4	4.5
20°-30°	2620.7	6.3
30°-40°	3713.8	8.9
40°-50°	5852.8	14.0
50°-60°	9497.1	22.8
60°-70°	10606.3	25.4
70°-80°	5972.6	14.3
80°-90°	693.1	1.7
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°	41699.1	100.0
0°-180°	41699.1	100.0

Coefficient of Utilization



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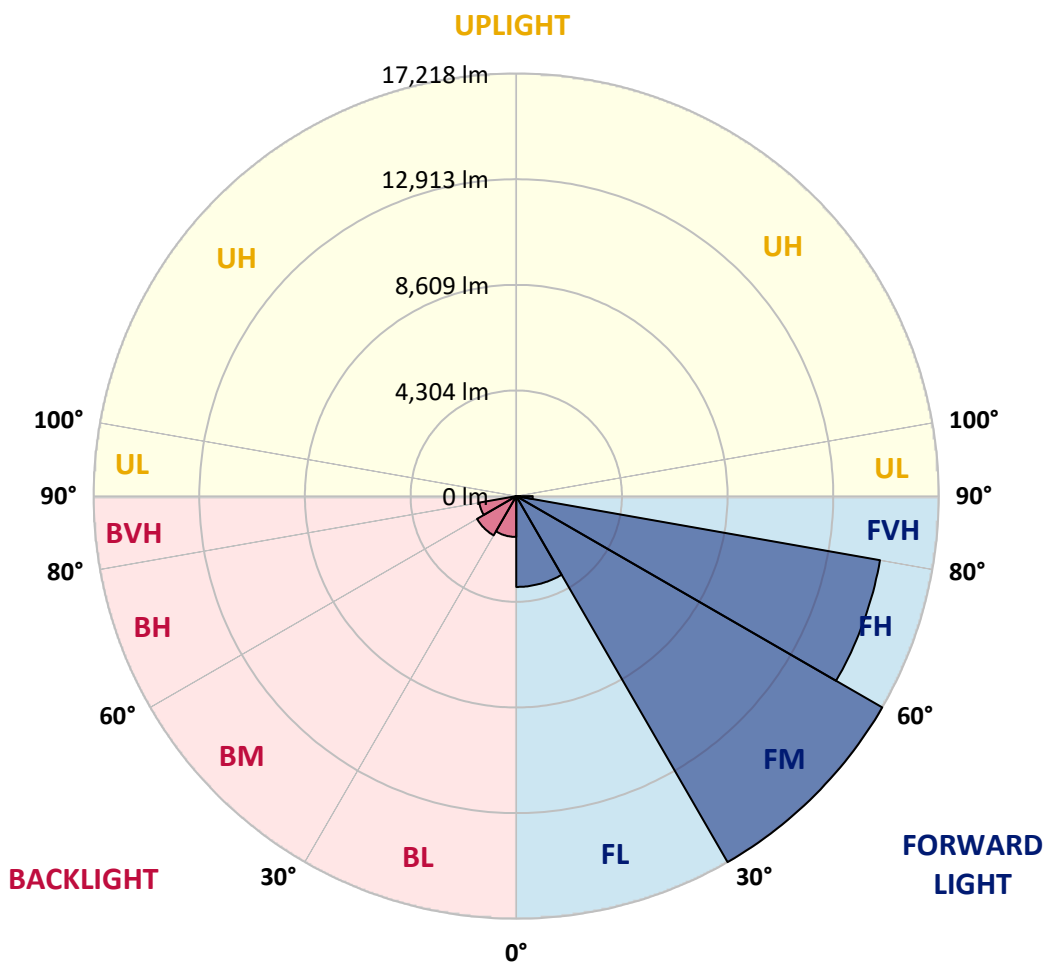
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3700.4	8.9			
FM (30°-60°)	17218.0	41.3			
FH (60°-80°)	15048.5	36.1			G5
FVH (80°-90°)	673.9	1.6			G4/750
BL (0°-30°)	1663.0	4.0	B3/2500		
BM (30°-60°)	1845.8	4.4	B2/2500		
BH (60°-80°)	1530.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	19.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3
2.5°	10125.2	10203.9	10226.4	10305.2	10344.6	10513.3	10608.9	10665.2	10637.1	10698.9	10704.6
5°	9405.2	9360.2	9478.3	9562.7	9742.7	10035.2	10333.3	10563.9	10670.8	10772.1	10755.2
7.5°	8634.5	8612.0	8730.2	8921.4	9084.5	9438.9	9917.1	10485.2	10462.7	10710.2	10783.3
10°	8105.8	8128.3	8167.6	8358.9	8600.8	8960.8	9557.0	10085.8	10203.9	10727.1	10873.3
12.5°	7622.0	7661.4	7734.5	7931.4	8212.6	8583.9	9163.3	9782.0	9962.1	10631.4	10923.9
15°	7464.5	7374.5	7520.8	7667.0	7959.5	8291.4	8780.8	9551.4	9630.2	10518.9	11008.3
17.5°	7335.1	7278.9	7346.4	7464.5	7773.9	8043.9	8505.2	9303.9	9450.2	10473.9	10997.1
20°	7374.5	7323.9	7352.0	7442.0	7582.6	7835.8	8263.3	9067.7	9225.2	10265.8	10980.2
22.5°	7487.0	7526.4	7475.8	7498.3	7543.3	7672.6	8133.9	8898.9	9033.9	10226.4	11075.8
25°	7993.3	7925.8	7858.3	7830.1	7565.8	7622.0	8094.5	8887.7	8983.3	10085.8	10997.1
27.5°	8522.0	8465.8	8437.7	8274.5	7914.5	7745.8	8100.1	8730.2	8859.5	10029.6	10901.4
30°	9163.3	9236.4	9123.9	8927.0	8426.4	8010.1	8162.0	8651.4	8831.4	9815.8	10839.6
32.5°	9838.3	9877.7	9933.9	9787.7	9140.8	8409.5	8347.6	8724.5	8735.8	9815.8	10698.9
35°	10603.3	10547.1	10693.3	10704.6	10136.4	9118.3	8702.0	8775.2	8893.3	9770.8	10648.3
37.5°	11261.5	11357.1	11525.8	11795.8	11210.8	10119.6	9253.3	9011.4	9062.0	9978.9	10687.7
40°	11981.5	12077.1	12459.6	12729.6	12397.7	11244.6	10091.4	9562.7	9602.0	10288.3	10890.2
42.5°	12774.6	12960.2	13415.9	13888.4	13798.4	12673.4	11171.4	10372.7	10355.8	11058.9	11306.5
45°	13849.0	14096.5	14591.5	15137.1	15215.9	14310.3	12611.5	11582.1	11638.3	12065.8	12167.1
47.5°	15345.3	15334.0	15817.8	16425.3	16880.9	16009.0	14332.8	13207.7	13202.1	13657.7	13444.0
50°	16790.9	16796.6	16925.9	17629.1	18810.3	18366.0	16464.7	15367.8	15305.9	15530.9	15187.8
52.5°	17460.3	17381.6	17285.9	18135.3	20295.4	21336.0	19164.7	17814.7	17764.1	17629.1	17539.1
55°	16757.2	16785.3	16779.7	17662.8	21077.3	24469.2	22629.8	20509.1	20424.7	20002.9	20126.6
57.5°	14501.5	14411.5	14608.4	15986.5	20182.9	26606.7	27585.5	23906.7	23687.3	22286.6	22005.4
60°	10794.6	10822.7	10985.8	12611.5	17960.9	27056.7	32327.5	27894.9	26949.9	23895.4	23507.3
62.5°	7537.6	7481.4	7543.3	8454.5	12842.1	25256.7	35533.8	32743.7	31832.4	25723.6	25498.6
65°	5394.5	5321.3	5568.8	6125.7	7712.0	19311.0	35989.4	39201.3	38385.7	28643.0	28103.0
67.5°	3881.3	3870.1	4156.9	5169.5	5478.8	11120.8	32614.3	45051.4	44556.4	32108.1	29689.3
69°	3211.9	3217.6	3493.2	4629.5	5231.3	7593.9	28063.6	46058.3	45968.3	33896.9	29391.2
70°	2801.3	2823.8	3144.4	4308.8	5130.1	6243.9	24193.6	45068.3	44978.3	34245.6	28406.8
72.5°	1726.9	1743.8	2165.7	3453.8	4877.0	5096.3	14467.8	36872.5	37181.9	32648.1	24474.8
75°	826.9	832.5	1136.3	2497.5	4702.6	4832.0	7751.4	27208.6	27861.1	26359.2	19125.3
77.5°	438.8	438.8	545.6	1327.5	3808.2	4545.1	4601.3	19192.8	19732.9	16667.2	10873.3
80°	219.4	225.0	331.9	691.9	2362.5	4455.1	3594.4	11447.1	11739.6	6800.7	3386.3
82.5°	84.4	90.0	157.5	416.3	1226.3	3763.2	3155.7	5630.7	5557.6	1591.9	826.9
85°	11.3	11.3	56.3	247.5	523.1	1659.4	2604.4	2351.3	2272.5	348.8	399.4
87.5°	0.0	0.0	11.3	73.1	157.5	483.8	1006.9	646.9	720.0	95.6	196.9
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°	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3	10513.3
2.5°	10676.4	10558.3	10378.3	10203.9	10018.3	9793.3	9545.8	9455.8	9298.3	9287.0	9377.0
5°	10665.2	10473.9	10158.9	9787.7	9258.9	8859.5	8426.4	8111.4	7869.5	7712.0	7751.4
7.5°	10721.4	10490.8	9945.2	9146.4	8465.8	7672.6	7003.3	6542.0	6120.1	5912.0	5889.5
10°	10631.4	10322.1	9523.3	8403.9	7402.6	6294.5	5315.7	4697.0	4066.9	3836.3	3847.6
12.5°	10682.1	10248.9	9067.7	7638.9	6260.7	4820.7	3650.7	2806.9	2216.3	2025.0	2002.5
15°	10715.8	10091.4	8628.9	6722.0	4995.1	3285.1	2115.0	1591.9	1406.3	1372.5	1366.9
17.5°	10586.4	9900.2	8010.1	5816.4	3701.3	1996.9	1406.3	1299.4	1265.6	1243.1	1231.9
20°	10580.8	9787.7	7475.8	4888.2	2469.4	1361.3	1215.0	1175.6	1125.0	1108.1	1108.1
22.5°	10485.2	9551.4	6834.5	3870.1	1575.0	1170.0	1091.3	1029.4	973.1	950.6	945.0
25°	10457.1	9275.8	6232.6	2908.2	1198.1	1046.3	967.5	877.5	810.0	776.3	759.4
27.5°	10378.3	9039.5	5625.1	2047.5	1046.3	933.8	832.5	736.9	658.1	607.5	601.9
30°	10097.1	8792.0	4950.1	1417.5	950.6	826.9	714.4	601.9	523.1	489.4	478.1
32.5°	9978.9	8561.4	4213.2	1091.3	866.3	731.3	601.9	500.6	438.8	405.0	399.4
35°	9838.3	8223.9	3498.8	950.6	787.5	635.6	506.3	421.9	371.3	343.1	343.1
37.5°	9855.2	7953.9	2829.4	860.6	703.1	545.6	433.1	360.0	315.0	286.9	286.9
40°	9804.6	7740.1	2199.4	781.9	624.4	466.9	365.6	303.8	264.4	236.3	230.6
42.5°	10035.2	7683.9	1659.4	714.4	545.6	399.4	315.0	258.8	219.4	185.6	185.6
45°	10423.3	7773.9	1293.8	652.5	466.9	343.1	270.0	213.8	174.4	151.9	146.3
47.5°	11458.3	8128.3	1012.5	601.9	399.4	298.1	225.0	174.4	140.6	118.1	112.5
50°	12960.2	8921.4	860.6	528.8	337.5	253.1	185.6	135.0	112.5	90.0	84.4
52.5°	15097.8	10254.6	781.9	466.9	281.3	208.1	146.3	106.9	84.4	67.5	61.9
55°	17426.6	11919.6	708.8	393.8	236.3	168.8	118.1	84.4	61.9	45.0	39.4
57.5°	19243.5	13359.6	646.9	326.3	191.3	135.0	90.0	61.9	45.0	28.1	22.5
60°	21229.1	14372.1	568.1	258.8	157.5	101.3	67.5	45.0	33.8	16.9	16.9
62.5°	23276.7	15559.0	466.9	202.5	123.8	78.8	50.6	33.8	22.5	5.6	5.6
65°	26123.0	16487.2	360.0	157.5	95.6	56.3	39.4	28.1	11.3	0.0	0.0
67.5°	26927.4	16031.5	264.4	123.8	67.5	39.4	28.1	16.9	5.6	0.0	0.0
69°	26123.0	14439.6	230.6	106.9	56.3	33.8	22.5	11.3	5.6	0.0	0.0
70°	24654.8	13202.1	202.5	90.0	50.6	33.8	16.9	11.3	5.6	0.0	0.0
72.5°	20621.6	10125.2	157.5	67.5	39.4	28.1	16.9	11.3	0.0	0.0	0.0
75°	15125.9	6255.1	118.1	50.6	33.8	22.5	16.9	11.3	0.0	0.0	0.0
77.5°	8105.8	2283.8	84.4	33.8	22.5	16.9	16.9	11.3	0.0	0.0	0.0
80°	2221.9	675.0	61.9	22.5	16.9	11.3	11.3	5.6	0.0	0.0	0.0
82.5°	607.5	174.4	39.4	22.5	16.9	11.3	5.6	0.0	0.0	0.0	0.0
85°	326.3	67.5	22.5	16.9	11.3	5.6	0.0	0.0	0.0	0.0	0.0
87.5°	168.8	22.5	16.9	11.3	11.3	5.6	0.0	0.0	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)