

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: P484073

Luminaire Tested: **IFLD-L-SA7D-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484073
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

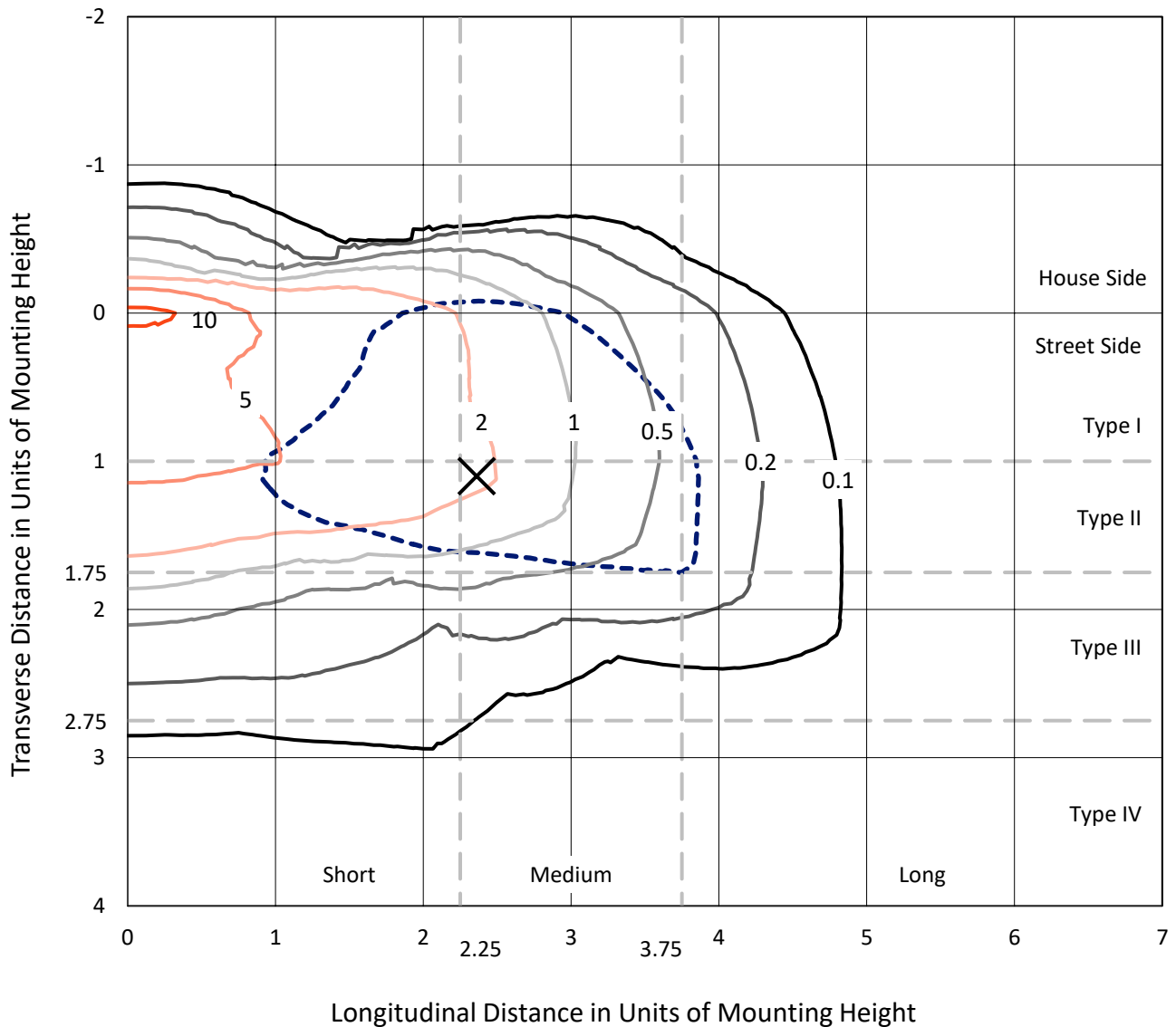
Lumens per Lamp: N/A
Luminaire Lumens: 41067.1 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P484073
 CATALOG NUMBER: IFLD-L-SA7D-750-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

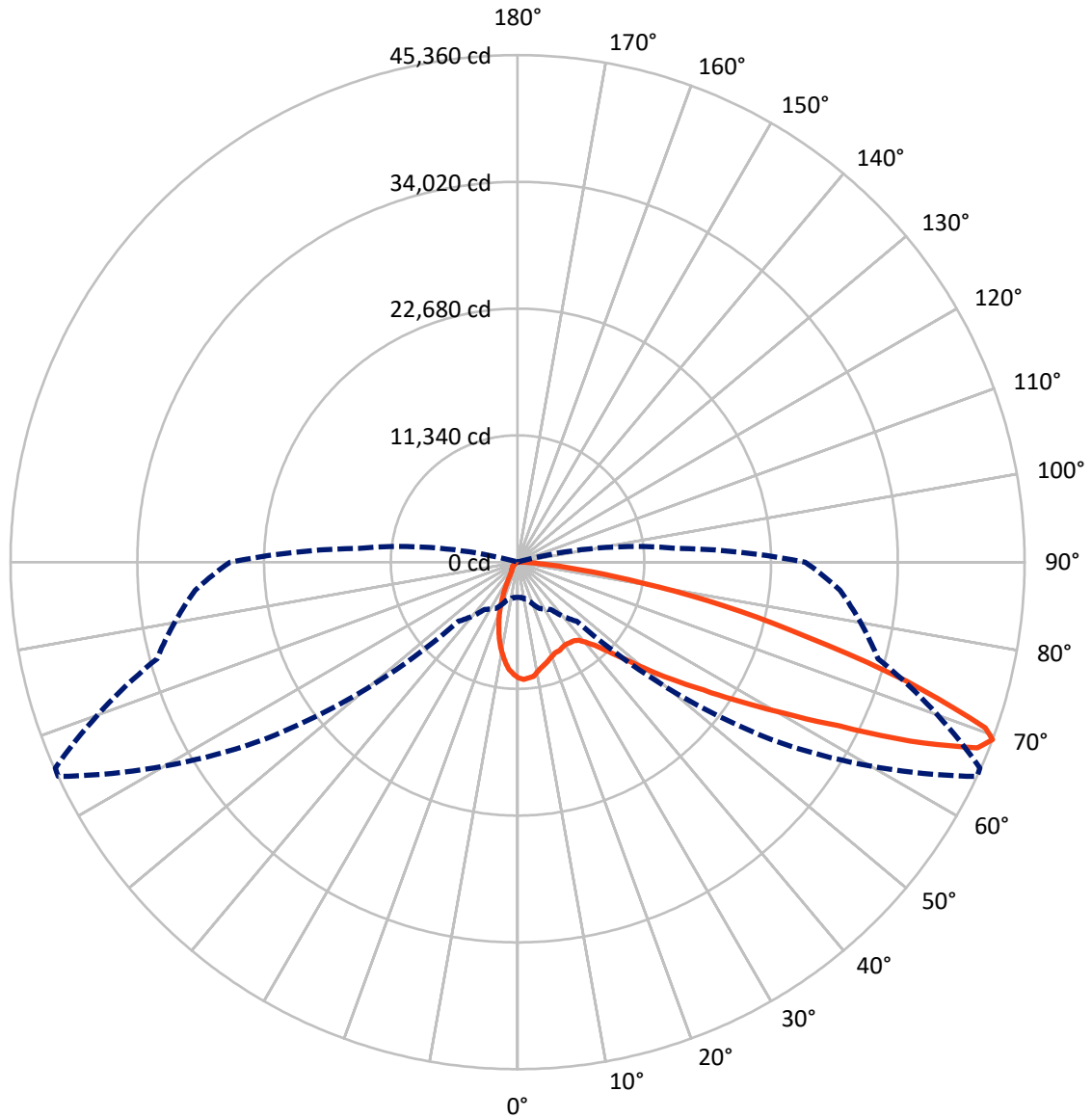
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P484073
CATALOG NUMBER: IFLD-L-SA7D-750-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484073
 CATALOG NUMBER: IFLD-L-SA7D-750-U-SL2-HSS

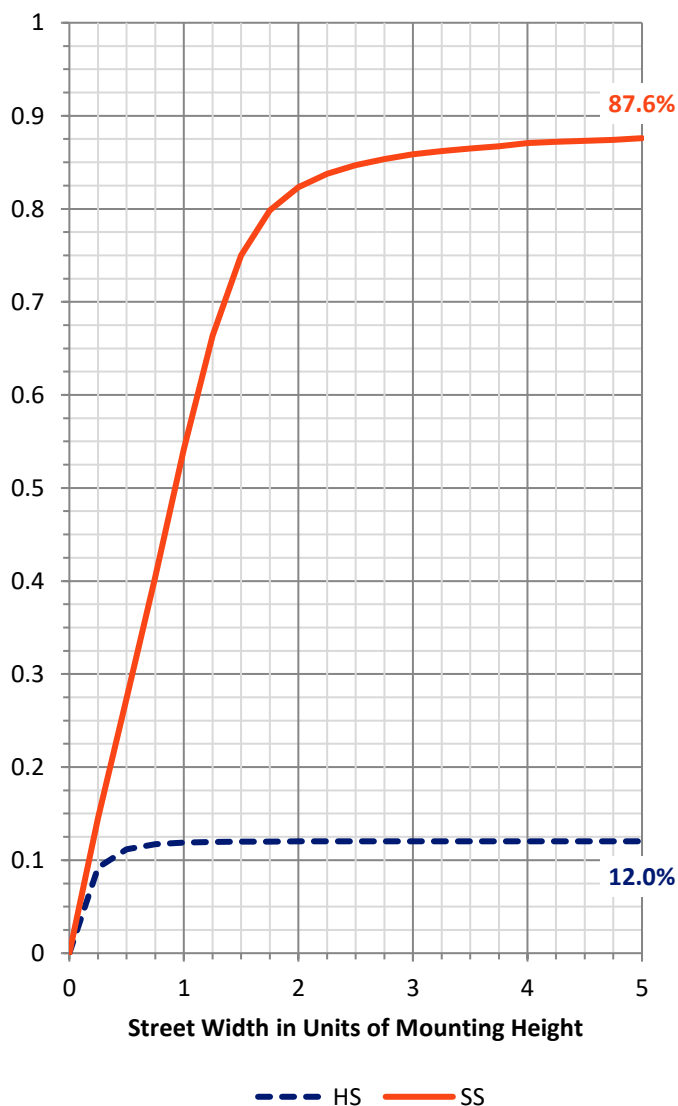
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4981.7	0.0	4981.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	36085.4	0.0	36085.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	41067.1	0.0	41067.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.3	2.1
10°-20°	1853.9	4.5
20°-30°	2581.0	6.3
30°-40°	3657.5	8.9
40°-50°	5764.1	14.0
50°-60°	9353.2	22.8
60°-70°	10445.6	25.4
70°-80°	5882.1	14.3
80°-90°	682.5	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°	41067.1	100.0
0°-180°	41067.1	100.0

Coefficient of Utilization



REPORT NUMBER: P484073

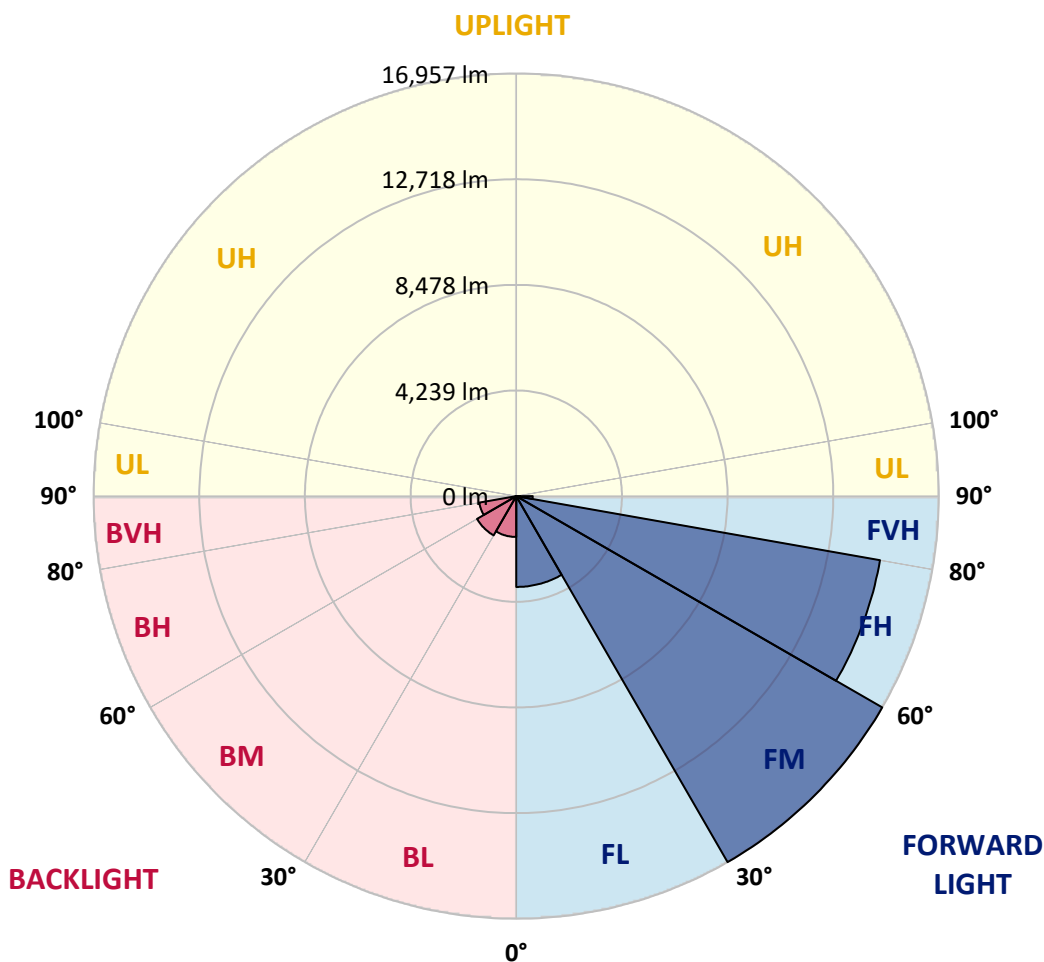
CATALOG NUMBER: IFLD-L-SA7D-750-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3644.3	8.9			
FM (30°-60°)	16957.0	41.3			
FH (60°-80°)	14820.4	36.1			G5
FVH (80°-90°)	663.7	1.6			G4/750
BL (0°-30°)	1637.8	4.0	B3/2500		
BM (30°-60°)	1817.8	4.4	B2/2500		
BH (60°-80°)	1507.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	18.8	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





REPORT NUMBER: P484073

CATALOG NUMBER: IFLD-L-SA7D-750-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0
2.5°	9971.7	10049.3	10071.4	10149.0	10187.8	10354.0	10448.2	10503.5	10475.8	10536.8	10542.3
5°	9262.6	9218.3	9334.6	9417.7	9595.0	9883.1	10176.7	10403.8	10509.1	10608.8	10592.2
7.5°	8503.7	8481.5	8597.8	8786.2	8946.9	9295.9	9766.7	10326.3	10304.1	10547.9	10619.9
10°	7982.9	8005.1	8043.9	8232.2	8470.4	8825.0	9412.2	9932.9	10049.3	10564.5	10708.5
12.5°	7506.5	7545.3	7617.3	7811.2	8088.2	8453.8	9024.4	9633.8	9811.1	10470.3	10758.4
15°	7351.4	7262.7	7406.8	7550.8	7838.9	8165.7	8647.7	9406.7	9484.2	10359.5	10841.5
17.5°	7224.0	7168.6	7235.0	7351.4	7656.1	7922.0	8376.2	9162.9	9306.9	10315.2	10830.4
20°	7262.7	7212.9	7240.6	7329.2	7467.7	7717.0	8138.0	8930.2	9085.3	10110.2	10813.8
22.5°	7373.5	7412.3	7362.5	7384.6	7428.9	7556.4	8010.6	8764.0	8897.0	10071.4	10908.0
25°	7872.1	7805.6	7739.2	7711.5	7451.1	7506.5	7971.8	8753.0	8847.1	9932.9	10830.4
27.5°	8392.9	8337.5	8309.8	8149.1	7794.6	7628.4	7977.4	8597.8	8725.3	9877.5	10736.2
30°	9024.4	9096.4	8985.6	8791.7	8298.7	7888.7	8038.3	8520.3	8697.6	9667.0	10675.3
32.5°	9689.2	9728.0	9783.4	9639.3	9002.3	8282.1	8221.1	8592.3	8603.4	9667.0	10536.8
35°	10442.6	10387.2	10531.2	10542.3	9982.8	8980.1	8570.1	8642.2	8758.5	9622.7	10486.9
37.5°	11090.8	11185.0	11351.1	11617.1	11040.9	9966.2	9113.0	8874.8	8924.7	9827.7	10525.7
40°	11799.9	11894.1	12270.8	12536.7	12209.8	11074.2	9938.5	9417.7	9456.5	10132.4	10725.1
42.5°	12581.0	12763.8	13212.5	13677.9	13589.2	12481.3	11002.1	10215.5	10198.9	10891.3	11135.1
45°	13639.1	13882.9	14370.4	14907.7	14985.3	14093.4	12420.3	11406.5	11461.9	11883.0	11982.7
47.5°	15112.7	15101.6	15578.0	16176.4	16625.1	15766.4	14115.5	13007.6	13002.0	13450.7	13240.2
50°	16536.4	16542.0	16669.4	17361.9	18525.2	18087.6	16215.1	15134.9	15073.9	15295.5	14957.6
52.5°	17195.7	17118.1	17023.9	17860.5	19987.8	21012.6	18874.3	17544.7	17494.8	17361.9	17273.2
55°	16503.2	16530.9	16525.4	17395.1	20757.8	24098.3	22286.8	20198.3	20115.2	19699.7	19821.6
57.5°	14281.7	14193.1	14387.0	15744.2	19877.0	26203.5	27167.4	23544.3	23328.3	21948.9	21671.9
60°	10631.0	10658.7	10819.3	12420.3	17688.7	26646.7	31837.5	27472.1	26541.4	23533.3	23151.0
62.5°	7423.4	7368.0	7428.9	8326.4	12647.5	24873.9	34995.2	32247.4	31350.0	25333.7	25112.1
65°	5312.7	5240.7	5484.4	6032.9	7595.1	19018.3	35443.9	38607.2	37803.9	28208.9	27677.1
67.5°	3822.5	3811.4	4093.9	5091.1	5395.8	10952.3	32120.0	44368.6	43881.1	31621.4	29239.3
69°	3163.3	3168.8	3440.2	4559.3	5152.1	7478.8	27638.3	45360.3	45271.6	33383.1	28945.7
70°	2758.8	2781.0	3096.8	4243.5	5052.3	6149.2	23826.9	44385.3	44296.6	33726.6	27976.2
72.5°	1700.7	1717.4	2132.8	3401.5	4803.0	5019.1	14248.5	36313.7	36618.4	32153.3	24103.9
75°	814.4	819.9	1119.0	2459.7	4631.3	4758.7	7633.9	26796.2	27438.9	25959.7	18835.5
77.5°	432.1	432.1	537.4	1307.4	3750.5	4476.2	4531.6	18902.0	19433.8	16414.6	10708.5
80°	216.1	221.6	326.9	681.4	2326.7	4387.6	3540.0	11273.6	11561.7	6697.7	3335.0
82.5°	83.1	88.6	155.1	409.9	1207.7	3706.2	3107.9	5545.4	5473.4	1567.8	814.4
85°	11.1	11.1	55.4	243.8	515.2	1634.3	2564.9	2315.7	2238.1	343.5	393.3
87.5°	0.0	0.0	11.1	72.0	155.1	476.4	991.6	637.1	709.1	94.2	193.9
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: P484073

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0	10354.0
2.5°	10514.6	10398.3	10221.0	10049.3	9866.5	9644.9	9401.1	9312.5	9157.4	9146.3	9234.9
5°	10503.5	10315.2	10005.0	9639.3	9118.6	8725.3	8298.7	7988.5	7750.2	7595.1	7633.9
7.5°	10558.9	10331.8	9794.4	9007.8	8337.5	7556.4	6897.1	6442.8	6027.4	5822.4	5800.2
10°	10470.3	10165.6	9379.0	8276.5	7290.4	6199.1	5235.2	4625.8	4005.3	3778.2	3789.3
12.5°	10520.2	10093.6	8930.2	7523.1	6165.8	4747.6	3595.4	2764.4	2182.7	1994.3	1972.2
15°	10553.4	9938.5	8498.1	6620.1	4919.4	3235.3	2083.0	1567.8	1385.0	1351.7	1346.2
17.5°	10426.0	9750.1	7888.7	5728.2	3645.2	1966.6	1385.0	1279.7	1246.5	1224.3	1213.2
20°	10420.5	9639.3	7362.5	4814.1	2432.0	1340.6	1196.6	1157.8	1108.0	1091.3	1091.3
22.5°	10326.3	9406.7	6730.9	3811.4	1551.2	1152.3	1074.7	1013.8	958.4	936.2	930.7
25°	10298.6	9135.2	6138.2	2864.1	1180.0	1030.4	952.9	864.2	797.7	764.5	747.9
27.5°	10221.0	8902.5	5539.8	2016.5	1030.4	919.6	819.9	725.7	648.2	598.3	592.8
30°	9944.0	8658.8	4875.1	1396.0	936.2	814.4	703.6	592.8	515.2	482.0	470.9
32.5°	9827.7	8431.6	4149.3	1074.7	853.1	720.2	592.8	493.0	432.1	398.9	393.3
35°	9689.2	8099.3	3445.8	936.2	775.6	626.0	498.6	415.5	365.6	337.9	337.9
37.5°	9705.8	7833.3	2786.5	847.6	692.5	537.4	426.6	354.6	310.2	282.5	282.5
40°	9656.0	7622.8	2166.1	770.0	614.9	459.8	360.1	299.2	260.4	232.7	227.1
42.5°	9883.1	7567.4	1634.3	703.6	537.4	393.3	310.2	254.8	216.1	182.8	182.8
45°	10265.3	7656.1	1274.2	642.6	459.8	337.9	265.9	210.5	171.7	149.6	144.0
47.5°	11284.7	8005.1	997.2	592.8	393.3	293.6	221.6	171.7	138.5	116.3	110.8
50°	12763.8	8786.2	847.6	520.7	332.4	249.3	182.8	133.0	110.8	88.6	83.1
52.5°	14868.9	10099.1	770.0	459.8	277.0	205.0	144.0	105.3	83.1	66.5	60.9
55°	17162.4	11738.9	698.0	387.8	232.7	166.2	116.3	83.1	60.9	44.3	38.8
57.5°	18951.8	13157.1	637.1	321.3	188.4	133.0	88.6	60.9	44.3	27.7	22.2
60°	20907.4	14154.3	559.5	254.8	155.1	99.7	66.5	44.3	33.2	16.6	16.6
62.5°	22923.9	15323.2	459.8	199.4	121.9	77.6	49.9	33.2	22.2	5.5	5.5
65°	25727.0	16237.3	354.6	155.1	94.2	55.4	38.8	27.7	11.1	0.0	0.0
67.5°	26519.2	15788.6	260.4	121.9	66.5	38.8	27.7	16.6	5.5	0.0	0.0
69°	25727.0	14220.8	227.1	105.3	55.4	33.2	22.2	11.1	5.5	0.0	0.0
70°	24281.1	13002.0	199.4	88.6	49.9	33.2	16.6	11.1	5.5	0.0	0.0
72.5°	20309.1	9971.7	155.1	66.5	38.8	27.7	16.6	11.1	0.0	0.0	0.0
75°	14896.6	6160.3	116.3	49.9	33.2	22.2	16.6	11.1	0.0	0.0	0.0
77.5°	7982.9	2249.2	83.1	33.2	22.2	16.6	16.6	11.1	0.0	0.0	0.0
80°	2188.2	664.8	60.9	22.2	16.6	11.1	11.1	5.5	0.0	0.0	0.0
82.5°	598.3	171.7	38.8	22.2	16.6	11.1	5.5	0.0	0.0	0.0	0.0
85°	321.3	66.5	22.2	16.6	11.1	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	166.2	22.2	16.6	11.1	11.1	5.5	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)