

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: P484701

Luminaire Tested: **IFLD-L-SA8C-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484701
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

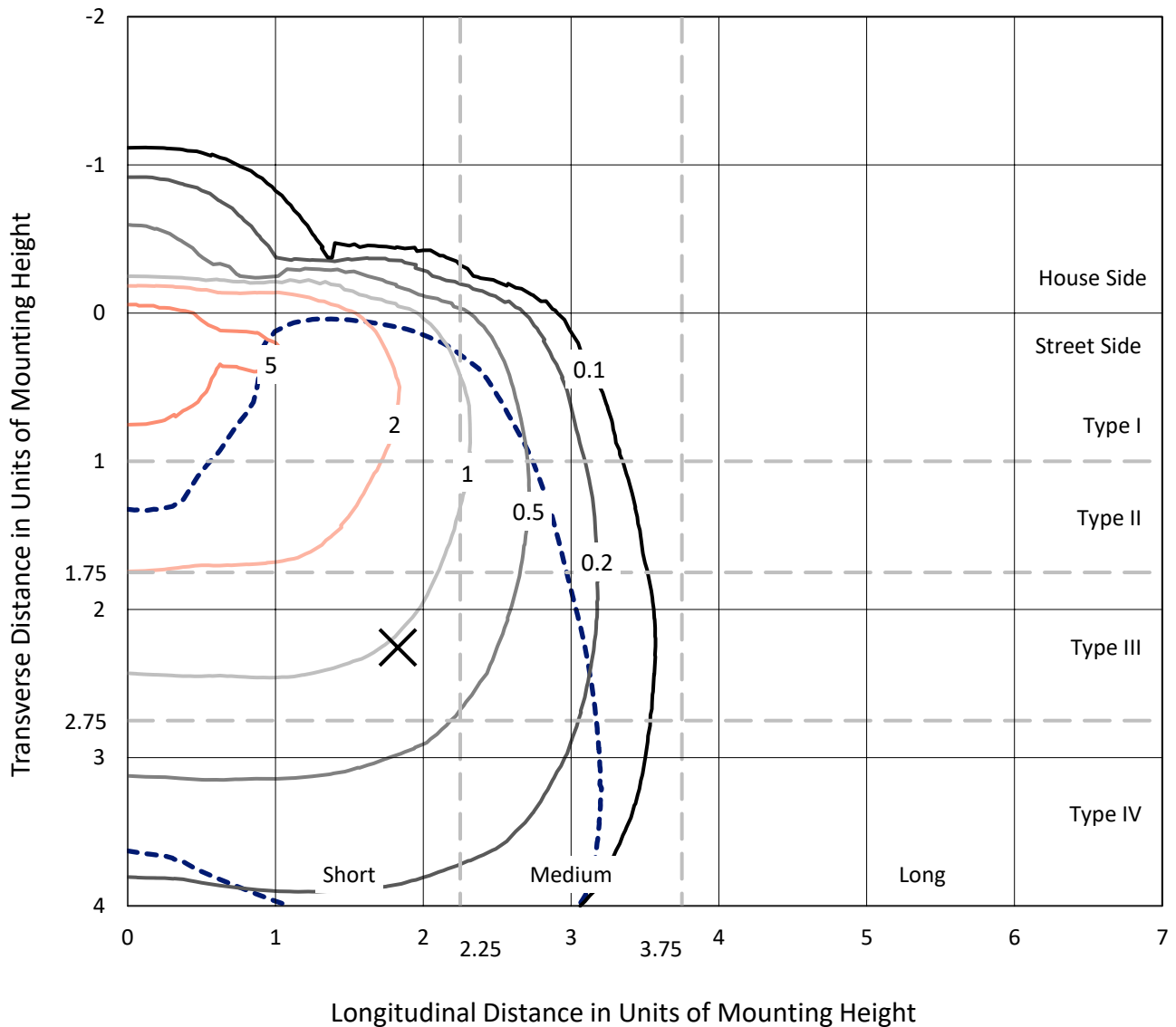
Lumens per Lamp: N/A
Luminaire Lumens: 35002.8 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

REPORT NUMBER: P484701
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

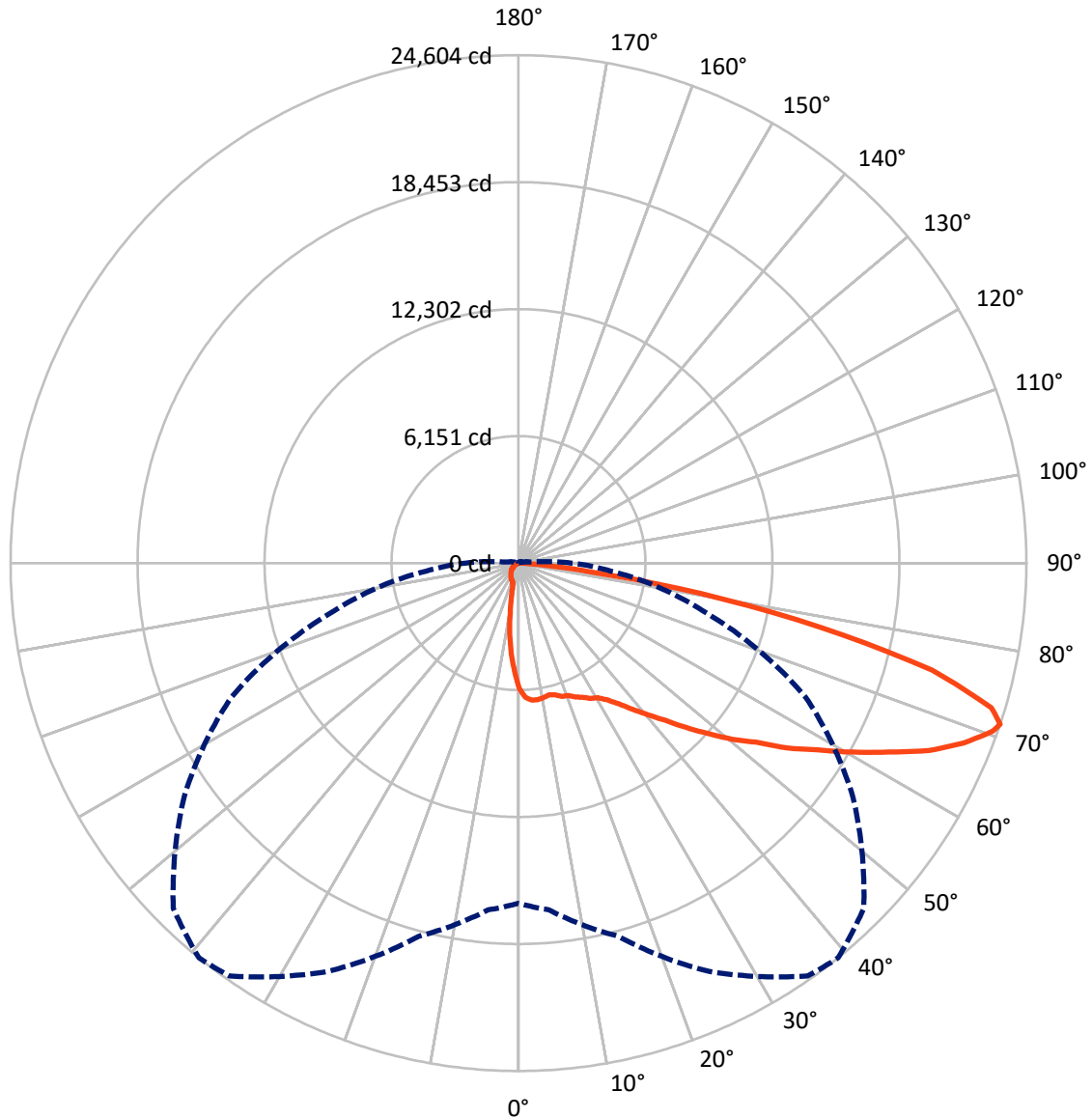
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P484701
CATALOG NUMBER: IFLD-L-SA8C-727-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484701
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL4-HSS

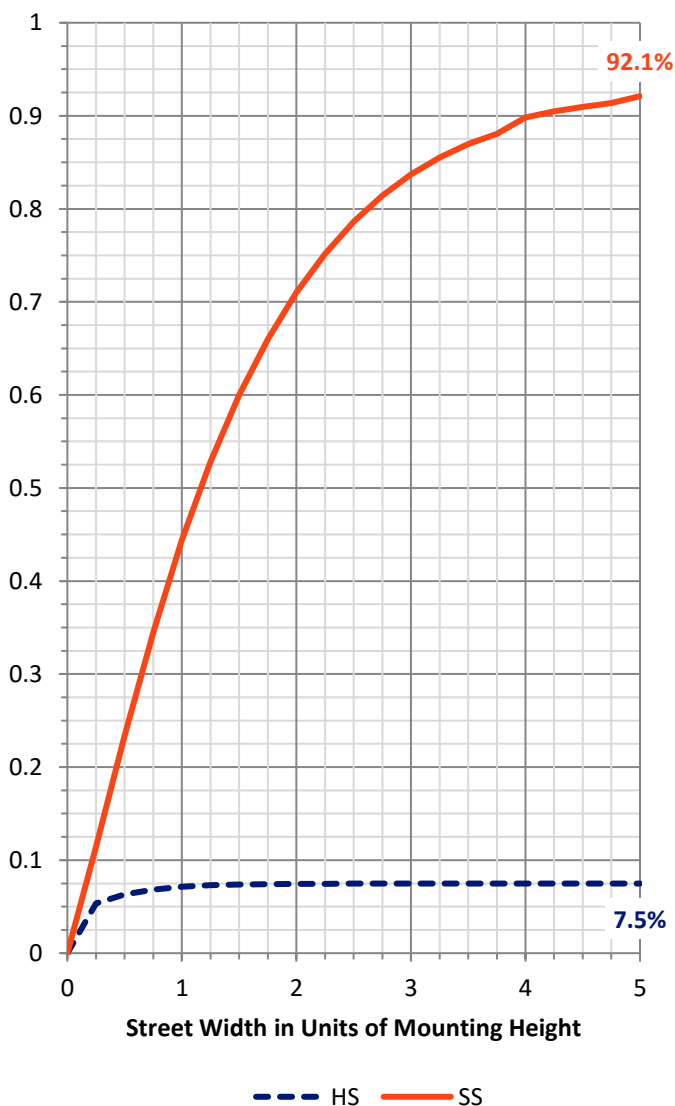
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2635.2	0.0	2635.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	32367.7	0.0	32367.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	35002.8	0.0	35002.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.4	1.5
10°-20°	1253.7	3.6
20°-30°	2012.7	5.8
30°-40°	3080.9	8.8
40°-50°	4945.4	14.1
50°-60°	7264.0	20.8
60°-70°	9148.7	26.1
70°-80°	6105.6	17.4
80°-90°	682.3	1.9
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°	35002.8	100.0
0°-180°	35002.8	100.0

Coefficient of Utilization



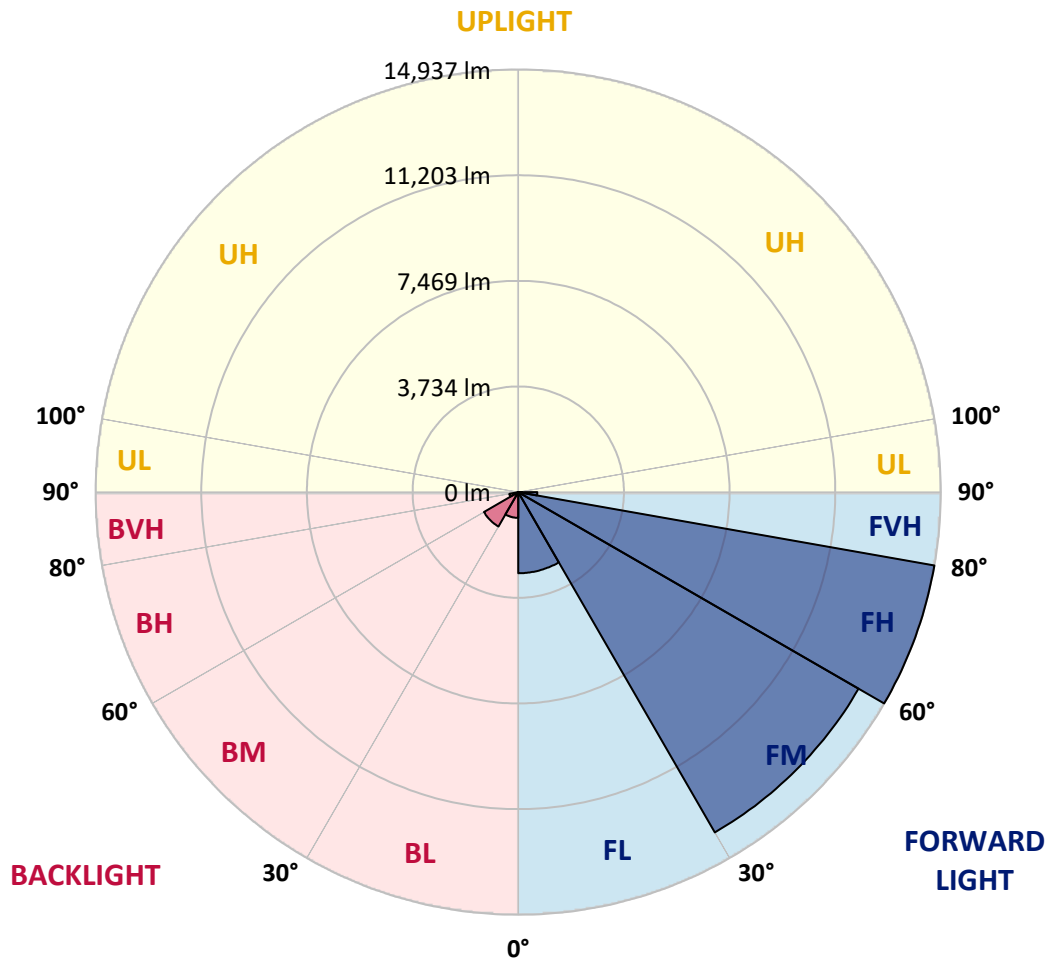
REPORT NUMBER: P484701
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2866.0	8.2			
FM (30°-60°)	13889.6	39.7			
FH (60°-80°)	14937.2	42.7			G5
FVH (80°-90°)	674.8	1.9			G4/750
BL (0°-30°)	909.8	2.6	B2/1000		
BM (30°-60°)	1400.7	4.0	B2/2500		
BH (60°-80°)	317.2	0.9	B1/500		G1/500
BVH (80°-90°)	7.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P484701

CATALOG NUMBER: IFLD-L-SA8C-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5
2.5°	6565.4	6629.6	6565.4	6537.8	6510.3	6514.9	6441.4	6455.2	6367.9	6253.2	6161.3
5°	6772.0	6859.2	6790.3	6758.2	6753.6	6666.4	6629.6	6542.4	6436.8	6257.7	6147.6
7.5°	6753.6	6735.2	6767.4	6739.8	6680.1	6680.1	6638.8	6514.9	6409.3	6207.2	6019.0
10°	6615.9	6671.0	6643.4	6611.3	6625.0	6629.6	6551.6	6464.3	6432.2	6230.2	5922.6
12.5°	6602.1	6510.3	6611.3	6615.9	6556.2	6551.6	6542.4	6519.4	6418.4	6234.8	5945.5
15°	6556.2	6519.4	6620.4	6625.0	6638.8	6625.0	6638.8	6620.4	6519.4	6413.8	6046.6
17.5°	6592.9	6551.6	6693.9	6762.8	6730.6	6794.9	6772.0	6689.3	6602.1	6478.1	6143.0
20°	6602.1	6661.8	6817.9	6845.4	6946.4	6840.8	6836.2	6749.0	6693.9	6560.8	6202.7
22.5°	6772.0	6799.5	6992.3	7052.0	7056.6	7042.8	6928.1	6827.1	6804.1	6638.8	6216.4
25°	7029.1	7125.5	7212.7	7249.4	7263.2	7198.9	7079.6	6951.0	6895.9	6790.3	6358.8
27.5°	7483.6	7423.9	7502.0	7557.0	7400.9	7423.9	7272.4	7162.2	7084.2	6992.3	6524.0
30°	7887.6	7832.5	7837.1	7827.9	7694.8	7570.8	7529.5	7336.7	7240.3	7277.0	6781.1
32.5°	8250.3	8130.9	8231.9	8186.0	7938.1	7901.4	7869.2	7625.9	7644.3	7814.2	7166.8
35°	8585.5	8544.1	8626.8	8544.1	8378.9	8369.7	8337.5	8126.3	8227.4	8470.7	7827.9
37.5°	8893.1	8906.8	9007.9	8966.5	8980.3	8989.5	8971.1	8746.2	9035.4	9581.7	8599.2
40°	9177.7	9159.4	9407.3	9535.8	9563.4	9664.4	9664.4	9609.3	10054.6	10669.8	9669.0
42.5°	9480.7	9526.7	9848.0	10063.8	10325.5	10412.7	10532.1	10559.7	11248.3	11950.8	10761.7
45°	9976.6	9898.5	10307.1	10816.8	11046.3	11353.9	11537.6	11693.7	12524.7	13488.8	11854.4
47.5°	10605.6	10449.5	10807.6	11546.8	12079.3	12331.8	12662.4	12869.0	13681.6	14677.9	12887.4
50°	11303.4	11142.7	11317.2	12336.4	12956.2	13415.4	13837.7	14099.4	15082.0	16009.4	13640.3
52.5°	12093.1	11946.2	11973.7	13158.3	14071.9	14407.1	14962.6	15352.8	16330.7	16812.8	13906.6
55°	12933.3	12896.6	12809.3	13961.7	15049.8	15802.8	16137.9	16606.2	17611.7	17249.0	14195.9
57.5°	13778.1	13663.3	13787.2	15026.9	16620.0	17069.9	17533.6	17813.7	18323.3	17630.0	14085.7
60°	14572.3	14581.5	14756.0	16183.8	17956.0	18594.2	19012.0	18842.1	19053.3	17795.3	13833.2
62.5°	15242.6	15224.3	15665.0	17483.1	19723.6	20155.2	20467.4	19709.8	19393.0	17956.0	13392.4
65°	15844.1	16050.7	16744.0	19030.3	21385.6	21881.5	21693.2	20531.7	19723.6	17483.1	12152.8
67.5°	16298.6	16606.2	17809.1	20485.7	22909.9	23258.8	22997.1	21156.1	19333.4	15628.3	9898.5
70°	16564.9	16877.1	18571.2	21697.8	24126.5	24379.0	23763.8	20674.0	17056.2	11317.2	6175.1
71°	16482.3	16863.3	18718.1	21826.4	24415.8	24604.0	23649.1	19783.3	15339.1	9476.1	4503.9
72.5°	15733.9	16092.0	18107.5	21734.5	24066.8	23952.1	22753.8	17643.8	12074.7	6042.0	2327.7
75°	11560.5	11946.2	15541.1	18800.8	21482.0	20692.3	18415.1	12382.4	6299.1	1850.2	679.5
77.5°	5757.3	5821.6	9646.0	13649.5	15756.9	14971.8	12341.0	6905.1	2355.3	546.3	339.7
80°	2653.7	2672.1	3617.8	7070.4	9526.7	8966.5	6914.3	3406.6	1065.1	289.2	266.3
82.5°	1808.9	1836.5	2180.8	2929.2	4136.6	3489.3	2800.6	2180.8	610.6	174.5	261.7
85°	330.6	303.0	1221.2	1551.8	1597.7	1083.5	968.7	1887.0	229.6	101.0	229.6
87.5°	0.0	4.6	169.9	633.6	569.3	252.5	330.6	459.1	23.0	32.1	41.3
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: P484701
 CATALOG NUMBER: IFLD-L-SA8C-727-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5	6092.5
2.5°	6083.3	6032.8	5862.9	5674.7	5504.8	5371.7	5201.8	5123.7	4999.8	4930.9	4926.3
5°	5996.1	5858.3	5564.5	5247.7	4894.2	4600.3	4274.4	4090.7	3879.5	3815.3	3801.5
7.5°	5849.1	5651.7	5220.1	4774.8	4233.0	3714.2	3314.8	2887.8	2626.1	2516.0	2474.6
10°	5757.3	5518.6	4930.9	4265.2	3507.6	2777.7	2217.5	1763.0	1524.3	1409.5	1381.9
12.5°	5757.3	5500.2	4696.8	3778.5	2773.1	1900.7	1372.8	1111.1	1033.0	1005.5	1005.5
15°	5743.5	5463.5	4471.8	3278.1	2052.2	1276.3	1023.8	968.7	959.6	955.0	950.4
17.5°	5812.4	5399.2	4242.2	2740.9	1450.8	1005.5	941.2	932.0	922.8	922.8	913.6
20°	5862.9	5362.5	3966.8	2171.6	1083.5	932.0	904.5	890.7	886.1	881.5	890.7
22.5°	5821.6	5307.4	3627.0	1625.3	945.8	886.1	867.7	854.0	844.8	844.8	849.4
25°	5899.6	5256.9	3287.3	1225.8	886.1	844.8	826.4	817.2	812.6	808.0	798.9
27.5°	6005.2	5279.8	2883.2	987.1	835.6	803.5	785.1	775.9	771.3	762.1	771.3
30°	6133.8	5275.2	2437.9	863.1	789.7	757.5	739.2	734.6	725.4	720.8	725.4
32.5°	6354.2	5394.6	1978.8	798.9	739.2	711.6	693.3	688.7	684.1	679.5	674.9
35°	6827.1	5541.5	1547.2	748.4	693.3	661.1	647.4	638.2	633.6	629.0	624.4
37.5°	7410.1	5867.5	1179.9	702.4	647.4	615.2	601.4	596.9	578.5	573.9	569.3
40°	8140.1	6216.4	909.0	651.9	606.0	573.9	560.1	546.3	523.4	514.2	505.0
42.5°	9049.2	6556.2	748.4	606.0	560.1	537.2	514.2	491.3	472.9	454.5	445.3
45°	9958.2	6951.0	656.5	564.7	523.4	495.8	477.5	445.3	413.2	385.7	381.1
47.5°	10715.8	7093.3	601.4	518.8	486.7	463.7	436.2	394.8	348.9	321.4	316.8
50°	11280.5	7010.7	546.3	472.9	445.3	422.4	385.7	335.2	289.2	261.7	252.5
52.5°	11390.7	6648.0	495.8	436.2	404.0	376.5	335.2	280.1	229.6	202.0	197.4
55°	11312.6	6046.6	454.5	404.0	367.3	326.0	280.1	225.0	179.1	151.5	146.9
57.5°	11151.9	5334.9	408.6	362.7	321.4	280.1	229.6	183.6	133.1	105.6	105.6
60°	10605.6	4366.2	362.7	316.8	275.5	238.7	188.2	133.1	91.8	68.9	64.3
62.5°	9843.4	3356.1	316.8	270.9	238.7	197.4	146.9	96.4	55.1	36.7	36.7
65°	8452.3	2350.7	266.3	225.0	197.4	160.7	110.2	59.7	32.1	13.8	13.8
67.5°	6423.0	1455.4	220.4	188.2	169.9	128.6	78.0	36.7	13.8	4.6	0.0
70°	3686.7	757.5	174.5	151.5	133.1	96.4	55.1	18.4	9.2	0.0	0.0
71°	2575.6	560.1	156.1	133.1	119.4	87.2	45.9	13.8	4.6	0.0	0.0
72.5°	1290.1	371.9	133.1	110.2	96.4	68.9	36.7	13.8	4.6	0.0	0.0
75°	459.1	238.7	91.8	73.5	68.9	50.5	23.0	9.2	4.6	0.0	0.0
77.5°	316.8	192.8	64.3	45.9	45.9	32.1	13.8	4.6	4.6	0.0	0.0
80°	289.2	105.6	41.3	27.5	23.0	18.4	9.2	4.6	0.0	0.0	0.0
82.5°	289.2	78.0	23.0	18.4	13.8	9.2	4.6	0.0	0.0	0.0	0.0
85°	202.0	41.3	13.8	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	32.1	13.8	9.2	4.6	4.6	0.0	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)