

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: P484070

Luminaire Tested: **IFLD-L-SA7A-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484070
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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

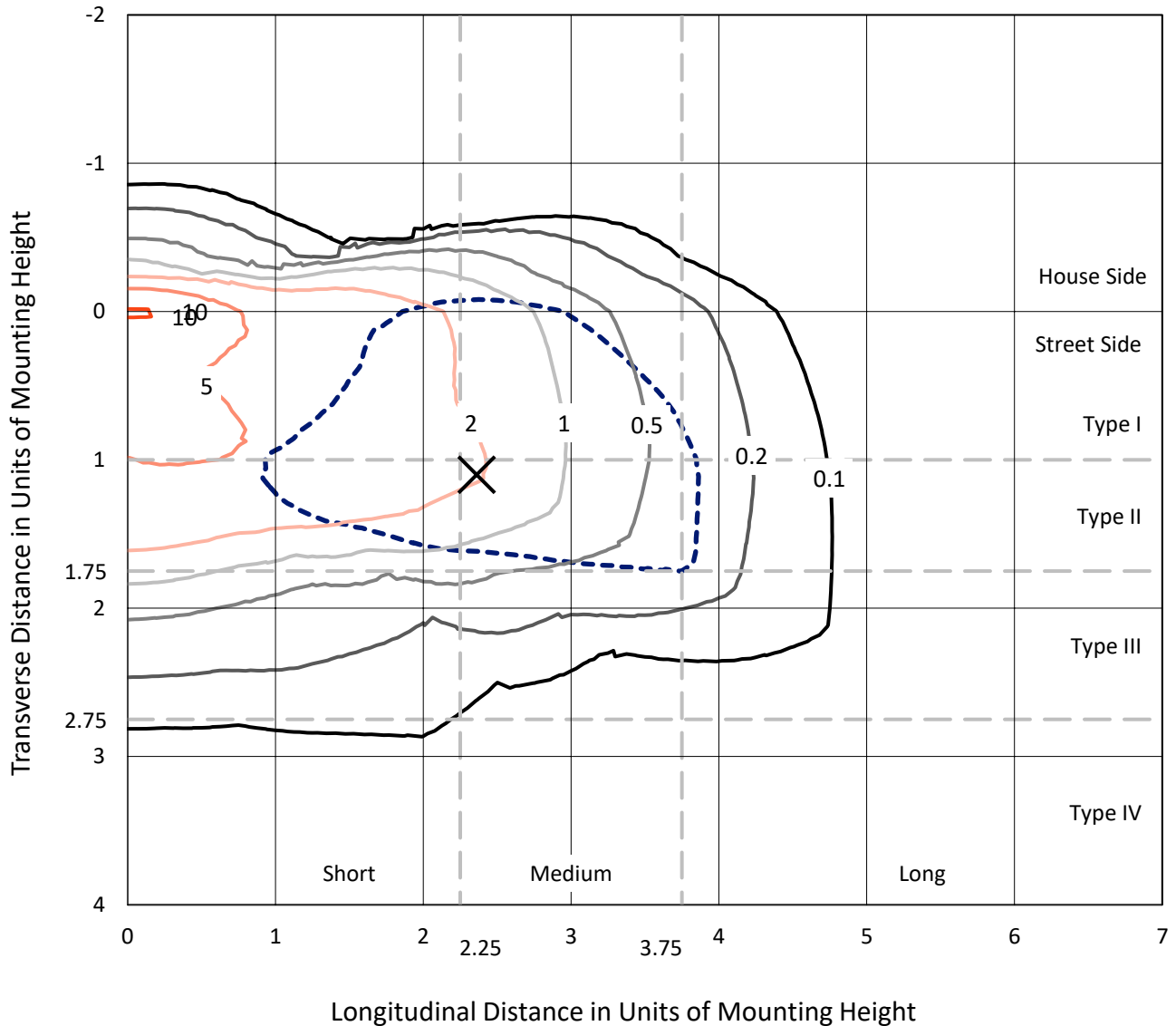
Lumens per Lamp: N/A
Luminaire Lumens: 26351.9 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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: P484070
 CATALOG NUMBER: IFLD-L-SA7A-750-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

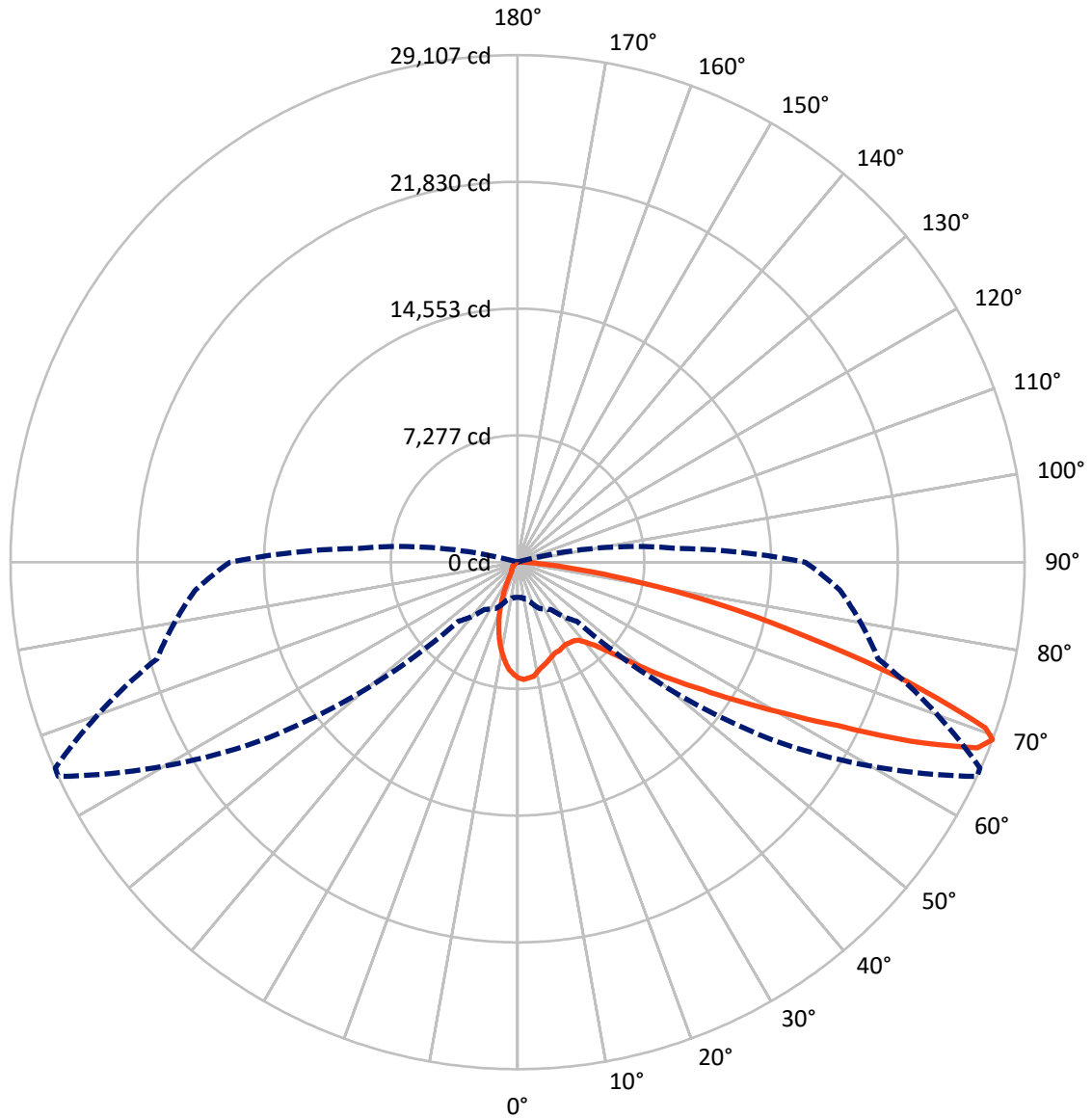
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P484070
CATALOG NUMBER: IFLD-L-SA7A-750-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484070
 CATALOG NUMBER: IFLD-L-SA7A-750-U-SL2-HSS

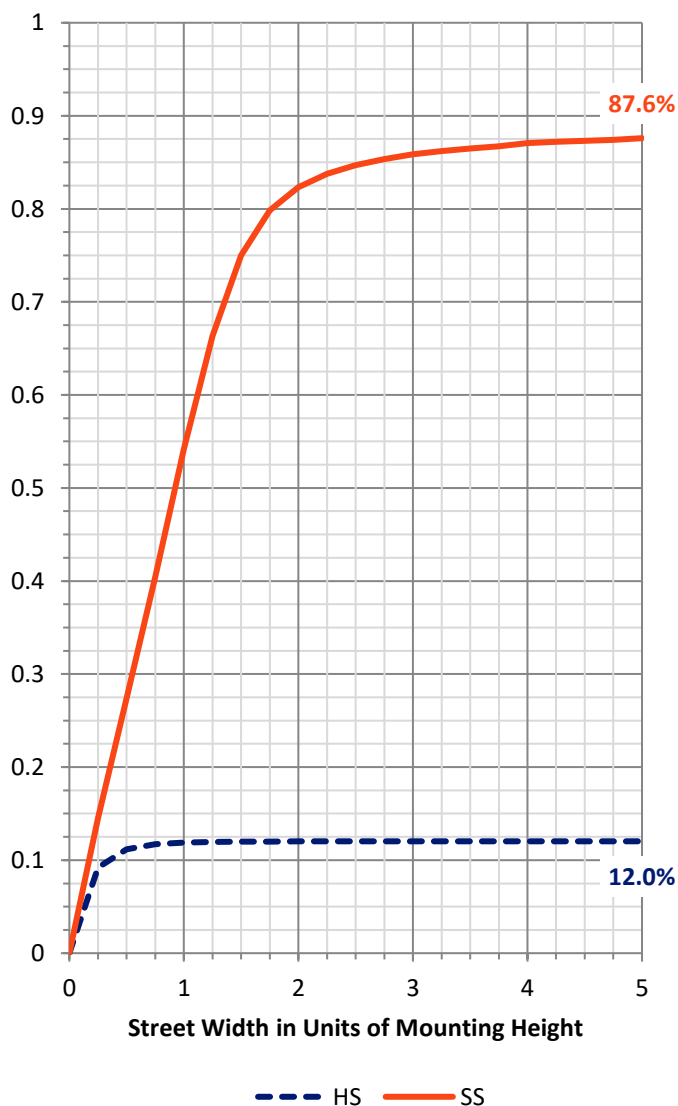
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3196.7	0.0	3196.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	23155.3	0.0	23155.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	26351.9	0.0	26351.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.7	2.1
10°-20°	1189.6	4.5
20°-30°	1656.2	6.3
30°-40°	2347.0	8.9
40°-50°	3698.7	14.0
50°-60°	6001.7	22.8
60°-70°	6702.7	25.4
70°-80°	3774.4	14.3
80°-90°	438.0	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°	26351.9	100.0
0°-180°	26351.9	100.0

Coefficient of Utilization



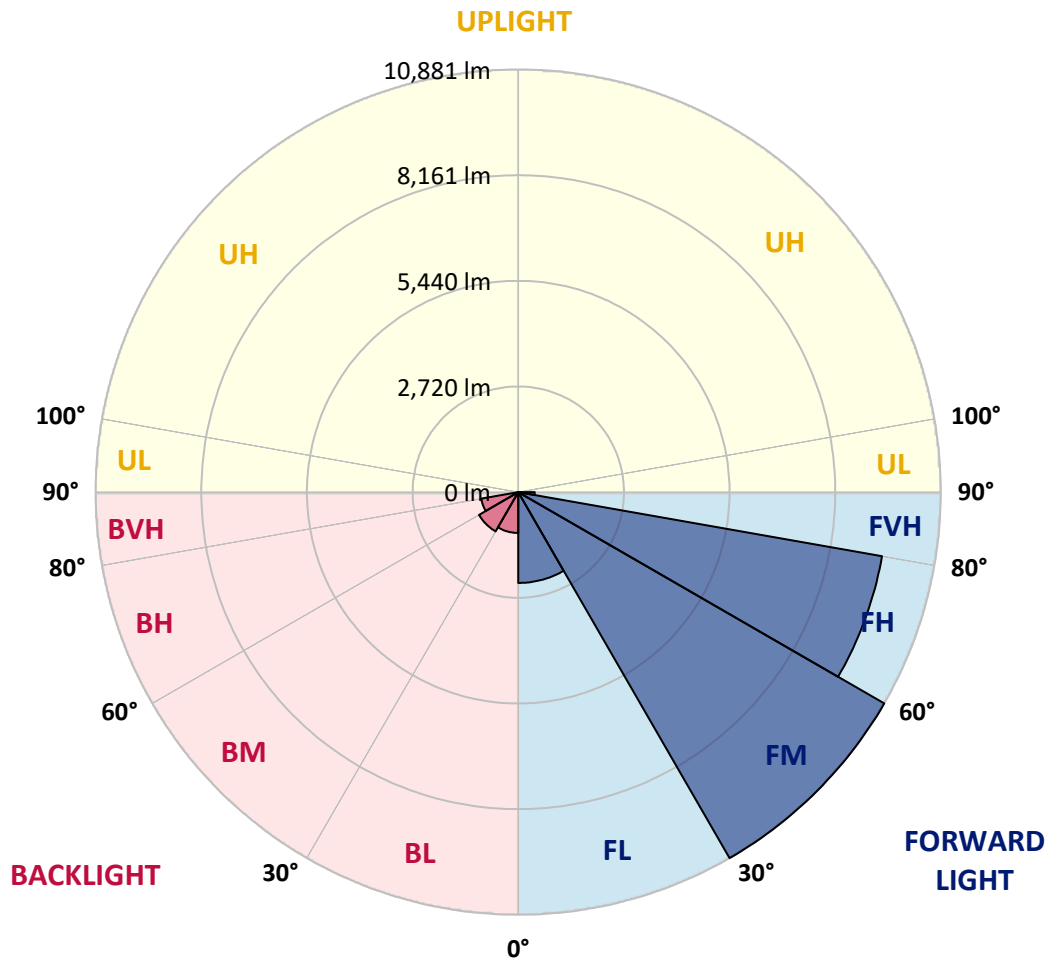
REPORT NUMBER: P484070
 CATALOG NUMBER: IFLD-L-SA7A-750-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.5	8.9			
FM (30°-60°)	10881.0	41.3			
FH (60°-80°)	9509.9	36.1			G4/12000
FVH (80°-90°)	425.9	1.6			G3/500
BL (0°-30°)	1051.0	4.0	B3/2500		
BM (30°-60°)	1166.4	4.4	B2/2500		
BH (60°-80°)	967.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	12.1	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-G4

Type II Medium





REPORT NUMBER: P484070

CATALOG NUMBER: IFLD-L-SA7A-750-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9
2.5°	6398.6	6448.4	6462.6	6512.4	6537.3	6643.9	6704.4	6739.9	6722.1	6761.2	6764.8
5°	5943.6	5915.2	5989.8	6043.2	6156.9	6341.8	6530.2	6675.9	6743.5	6807.5	6796.8
7.5°	5456.6	5442.4	5517.1	5637.9	5741.0	5965.0	6267.1	6626.2	6611.9	6768.3	6814.6
10°	5122.5	5136.7	5161.6	5282.4	5435.3	5662.8	6039.6	6373.8	6448.4	6779.0	6871.4
12.5°	4816.8	4841.6	4887.9	5012.3	5190.0	5424.6	5790.8	6181.8	6295.6	6718.6	6903.4
15°	4717.2	4660.3	4752.8	4845.2	5030.0	5239.8	5549.1	6036.1	6085.8	6647.5	6956.8
17.5°	4635.5	4599.9	4642.6	4717.2	4912.7	5083.4	5374.9	5879.6	5972.1	6619.0	6949.6
20°	4660.3	4628.4	4646.1	4703.0	4791.9	4951.8	5222.0	5730.3	5829.9	6487.5	6939.0
22.5°	4731.4	4756.3	4724.3	4738.6	4767.0	4848.8	5140.2	5623.7	5709.0	6462.6	6999.4
25°	5051.4	5008.7	4966.1	4948.3	4781.2	4816.8	5115.4	5616.6	5677.0	6373.8	6949.6
27.5°	5385.5	5350.0	5332.2	5229.1	5001.6	4895.0	5118.9	5517.1	5598.8	6338.2	6889.2
30°	5790.8	5837.0	5765.9	5641.5	5325.1	5062.0	5158.0	5467.3	5581.0	6203.1	6850.1
32.5°	6217.4	6242.2	6277.8	6185.4	5776.6	5314.4	5275.3	5513.5	5520.6	6203.1	6761.2
35°	6700.8	6665.3	6757.7	6764.8	6405.8	5762.3	5499.3	5545.5	5620.1	6174.7	6729.2
37.5°	7116.7	7177.2	7283.8	7454.4	7084.7	6395.1	5847.7	5694.8	5726.8	6306.2	6754.1
40°	7571.7	7632.2	7873.9	8044.5	7834.8	7106.1	6377.3	6043.2	6068.1	6501.7	6882.1
42.5°	8073.0	8190.3	8478.2	8776.8	8719.9	8009.0	7059.8	6555.1	6544.4	6988.7	7145.2
45°	8751.9	8908.3	9221.2	9566.0	9615.7	9043.4	7969.9	7319.3	7354.9	7625.1	7689.0
47.5°	9697.5	9690.4	9996.1	10380.0	10668.0	10117.0	9057.6	8346.7	8343.1	8631.1	8496.0
50°	10611.1	10614.6	10696.4	11140.8	11887.3	11606.4	10404.9	9711.7	9672.6	9814.8	9598.0
52.5°	11034.1	10984.3	10923.9	11460.7	12825.7	13483.4	12111.2	11258.1	11226.1	11140.8	11083.9
55°	10589.8	10607.5	10604.0	11162.1	13319.9	15463.4	14301.0	12960.8	12907.5	12640.9	12719.1
57.5°	9164.3	9107.4	9231.8	10102.8	12754.6	16814.2	17432.8	15107.9	14969.3	14084.1	13906.4
60°	6821.7	6839.4	6942.5	7969.9	11350.5	17098.6	20429.5	17628.3	17031.1	15100.8	14855.5
62.5°	4763.4	4727.9	4767.0	5342.9	8115.6	15961.1	22455.7	20692.5	20116.6	16256.1	16113.9
65°	3409.1	3362.8	3519.3	3871.2	4873.6	12203.6	22743.6	24773.4	24258.0	18101.1	17759.8
67.5°	2452.8	2445.7	2627.0	3266.9	3462.4	7027.8	20610.8	28470.4	28157.6	20290.8	18762.3
69°	2029.8	2033.3	2207.5	2925.6	3306.0	4799.0	17734.9	29106.7	29049.9	21421.3	18573.9
70°	1770.3	1784.5	1987.1	2723.0	3242.0	3945.8	15289.2	28481.1	28424.2	21641.7	17951.8
72.5°	1091.3	1102.0	1368.6	2182.7	3082.0	3220.7	9143.0	23301.7	23497.3	20632.1	15467.0
75°	522.6	526.1	718.1	1578.3	2971.8	3053.6	4898.5	17194.6	17606.9	16657.8	12086.3
77.5°	277.3	277.3	344.8	838.9	2406.6	2872.3	2907.8	12129.0	12470.3	10532.9	6871.4
80°	138.6	142.2	209.7	437.2	1493.0	2815.4	2271.5	7234.0	7418.9	4297.8	2140.0
82.5°	53.3	56.9	99.5	263.1	774.9	2378.2	1994.2	3558.4	3512.1	1006.0	522.6
85°	7.1	7.1	35.5	156.4	330.6	1048.7	1645.9	1485.9	1436.1	220.4	252.4
87.5°	0.0	0.0	7.1	46.2	99.5	305.7	636.3	408.8	455.0	60.4	124.4
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°	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9	6643.9
2.5°	6747.0	6672.4	6558.6	6448.4	6331.1	6188.9	6032.5	5975.6	5876.1	5869.0	5925.9
5°	6739.9	6619.0	6420.0	6185.4	5851.2	5598.8	5325.1	5126.0	4973.2	4873.6	4898.5
7.5°	6775.5	6629.7	6284.9	5780.1	5350.0	4848.8	4425.7	4134.2	3867.6	3736.1	3721.9
10°	6718.6	6523.1	6018.3	5310.9	4678.1	3977.8	3359.3	2968.3	2570.1	2424.4	2431.5
12.5°	6750.6	6476.9	5730.3	4827.4	3956.5	3046.5	2307.1	1773.8	1400.6	1279.7	1265.5
15°	6771.9	6377.3	5453.1	4248.0	3156.7	2076.0	1336.6	1006.0	888.7	867.4	863.8
17.5°	6690.1	6256.5	5062.0	3675.7	2339.1	1262.0	888.7	821.2	799.8	785.6	778.5
20°	6686.6	6185.4	4724.3	3089.1	1560.6	860.3	767.8	743.0	711.0	700.3	700.3
22.5°	6626.2	6036.1	4319.1	2445.7	995.3	739.4	689.6	650.5	615.0	600.8	597.2
25°	6608.4	5861.9	3938.7	1837.8	757.2	661.2	611.4	554.5	511.9	490.6	479.9
27.5°	6558.6	5712.6	3554.8	1293.9	661.2	590.1	526.1	465.7	415.9	383.9	380.4
30°	6380.9	5556.2	3128.2	895.8	600.8	522.6	451.5	380.4	330.6	309.3	302.2
32.5°	6306.2	5410.4	2662.5	689.6	547.4	462.1	380.4	316.4	277.3	255.9	252.4
35°	6217.4	5197.1	2211.1	600.8	497.7	401.7	319.9	266.6	234.6	216.8	216.8
37.5°	6228.0	5026.5	1788.1	543.9	444.4	344.8	273.7	227.5	199.1	181.3	181.3
40°	6196.0	4891.4	1389.9	494.1	394.6	295.0	231.1	192.0	167.1	149.3	145.7
42.5°	6341.8	4855.9	1048.7	451.5	344.8	252.4	199.1	163.5	138.6	117.3	117.3
45°	6587.1	4912.7	817.6	412.4	295.0	216.8	170.6	135.1	110.2	96.0	92.4
47.5°	7241.1	5136.7	639.9	380.4	252.4	188.4	142.2	110.2	88.9	74.7	71.1
50°	8190.3	5637.9	543.9	334.2	213.3	160.0	117.3	85.3	71.1	56.9	53.3
52.5°	9541.1	6480.4	494.1	295.0	177.7	131.5	92.4	67.5	53.3	42.7	39.1
55°	11012.8	7532.6	447.9	248.8	149.3	106.6	74.7	53.3	39.1	28.4	24.9
57.5°	12161.0	8442.7	408.8	206.2	120.9	85.3	56.9	39.1	28.4	17.8	14.2
60°	13415.8	9082.5	359.0	163.5	99.5	64.0	42.7	28.4	21.3	10.7	10.7
62.5°	14709.8	9832.6	295.0	128.0	78.2	49.8	32.0	21.3	14.2	3.6	3.6
65°	16508.5	10419.1	227.5	99.5	60.4	35.5	24.9	17.8	7.1	0.0	0.0
67.5°	17016.9	10131.2	167.1	78.2	42.7	24.9	17.8	10.7	3.6	0.0	0.0
69°	16508.5	9125.2	145.7	67.5	35.5	21.3	14.2	7.1	3.6	0.0	0.0
70°	15580.7	8343.1	128.0	56.9	32.0	21.3	10.7	7.1	3.6	0.0	0.0
72.5°	13031.9	6398.6	99.5	42.7	24.9	17.8	10.7	7.1	0.0	0.0	0.0
75°	9558.9	3952.9	74.7	32.0	21.3	14.2	10.7	7.1	0.0	0.0	0.0
77.5°	5122.5	1443.3	53.3	21.3	14.2	10.7	10.7	7.1	0.0	0.0	0.0
80°	1404.1	426.6	39.1	14.2	10.7	7.1	7.1	3.6	0.0	0.0	0.0
82.5°	383.9	110.2	24.9	14.2	10.7	7.1	3.6	0.0	0.0	0.0	0.0
85°	206.2	42.7	14.2	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	106.6	14.2	10.7	7.1	7.1	3.6	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)