

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: P483954

Luminaire Tested: **IFLD-L-SA7B-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483954
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

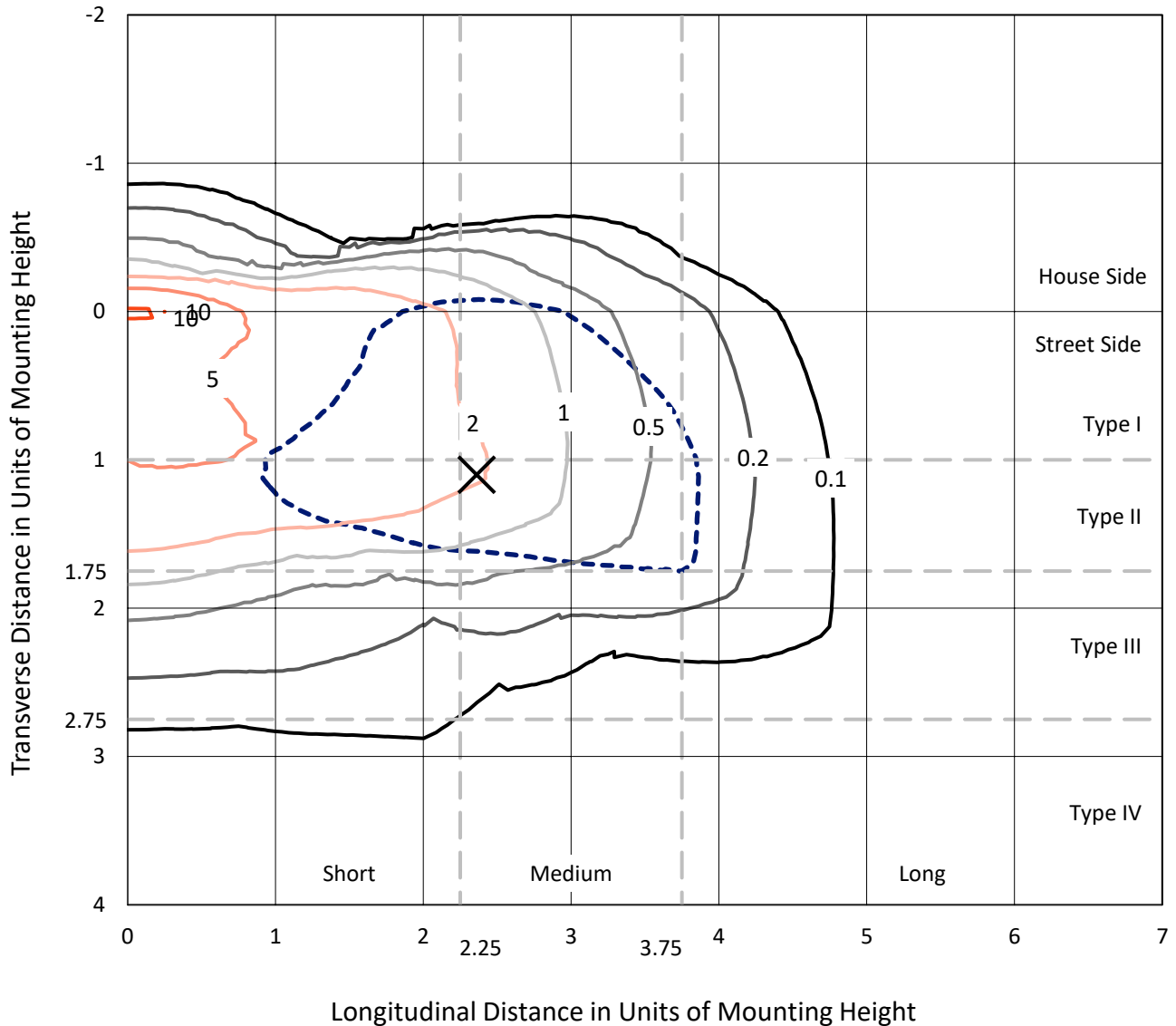
Lumens per Lamp: N/A
Luminaire Lumens: 26690.2 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

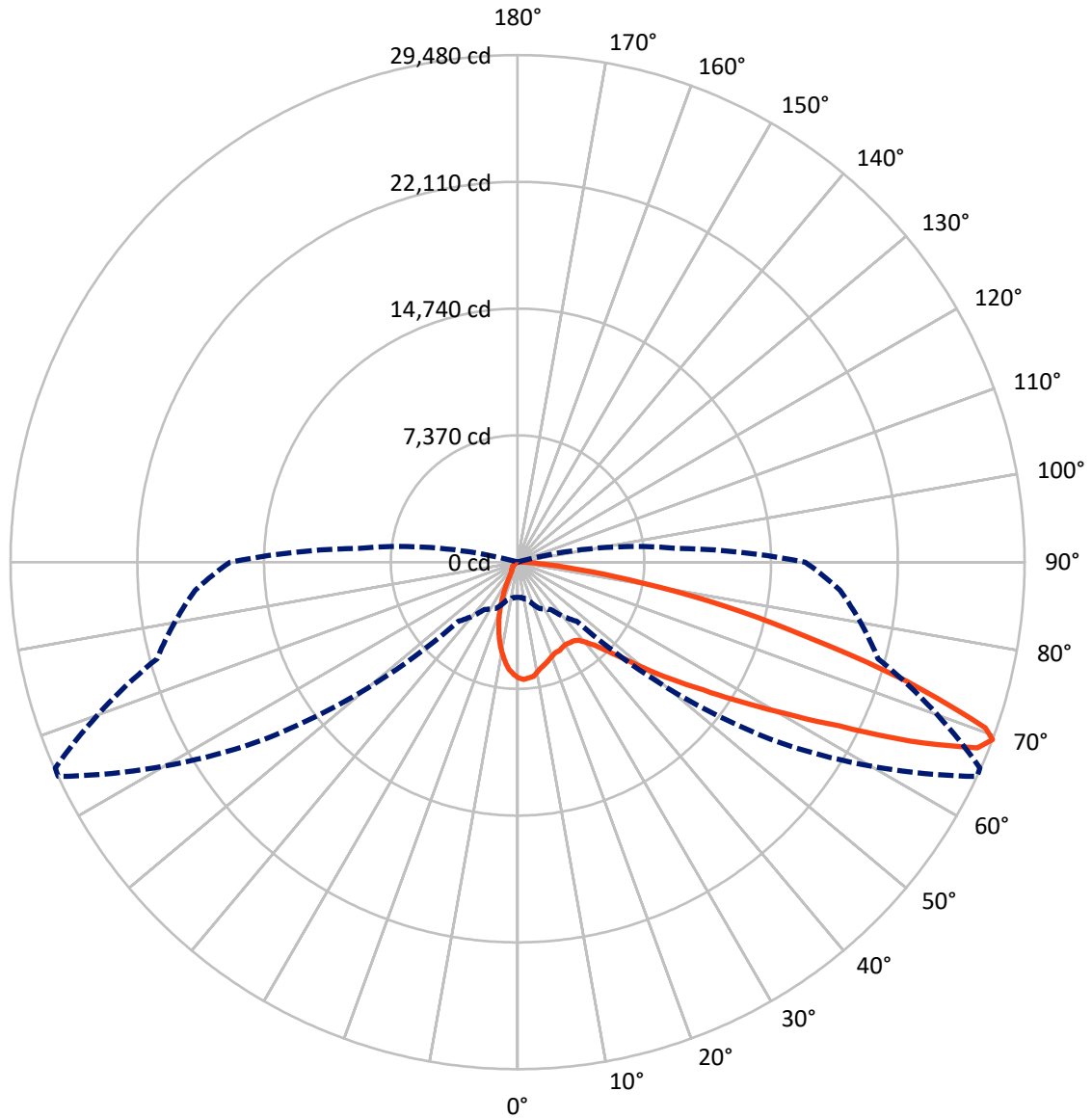
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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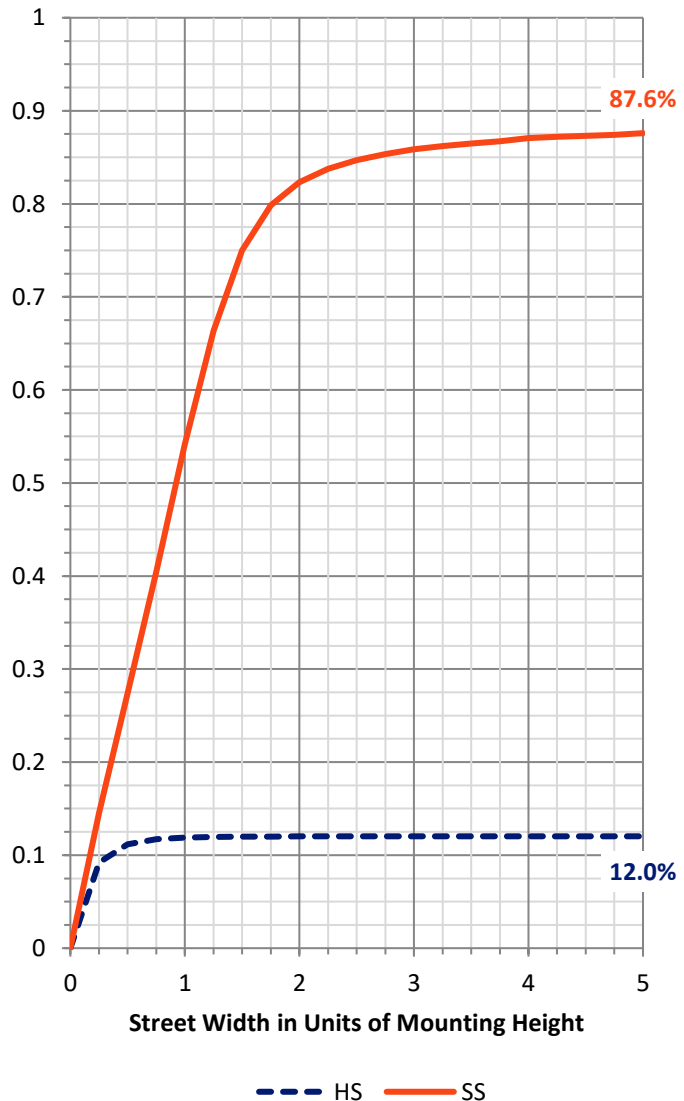
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3237.7	0.0	3237.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	23452.5	0.0	23452.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	26690.2	0.0	26690.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.7	2.1
10°-20°	1204.9	4.5
20°-30°	1677.4	6.3
30°-40°	2377.1	8.9
40°-50°	3746.2	14.0
50°-60°	6078.8	22.8
60°-70°	6788.8	25.4
70°-80°	3822.9	14.3
80°-90°	443.6	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°	26690.2	100.0
0°-180°	26690.2	100.0

Coefficient of Utilization



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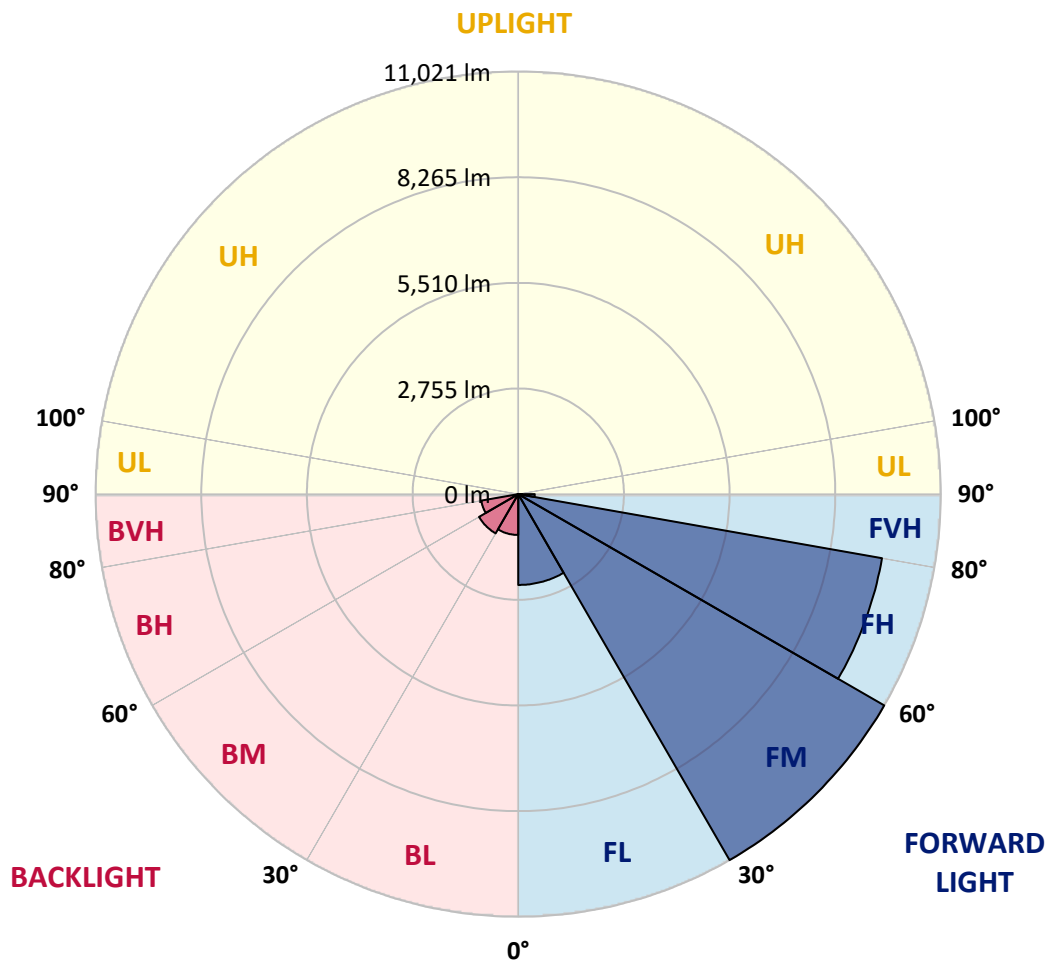
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2368.5	8.9			
FM (30°-60°)	11020.7	41.3			
FH (60°-80°)	9632.0	36.1			G4/12000
FVH (80°-90°)	431.4	1.6			G3/500
BL (0°-30°)	1064.5	4.0	B3/2500		
BM (30°-60°)	1181.4	4.4	B2/2500		
BH (60°-80°)	979.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	12.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2
2.5°	6480.8	6531.2	6545.6	6596.0	6621.2	6729.2	6790.4	6826.4	6808.4	6848.0	6851.6
5°	6019.9	5991.1	6066.7	6120.8	6236.0	6423.2	6614.0	6761.6	6830.0	6894.8	6884.0
7.5°	5526.7	5512.3	5587.9	5710.3	5814.7	6041.5	6347.6	6711.2	6696.8	6855.2	6902.1
10°	5188.2	5202.6	5227.8	5350.3	5505.1	5735.5	6117.2	6455.6	6531.2	6866.0	6959.7
12.5°	4878.6	4903.8	4950.6	5076.6	5256.6	5494.3	5865.1	6261.2	6376.4	6804.8	6992.1
15°	4777.8	4720.2	4813.8	4907.4	5094.6	5307.1	5620.3	6113.6	6164.0	6732.8	7046.1
17.5°	4695.0	4659.0	4702.2	4777.8	4975.8	5148.6	5443.9	5955.1	6048.7	6704.0	7038.9
20°	4720.2	4687.8	4705.8	4763.4	4853.4	5015.4	5289.1	5803.9	5904.7	6570.8	7028.1
22.5°	4792.2	4817.4	4785.0	4799.4	4828.2	4911.0	5206.2	5695.9	5782.3	6545.6	7089.3
25°	5116.2	5073.0	5029.8	5011.8	4842.6	4878.6	5181.0	5688.7	5749.9	6455.6	7038.9
27.5°	5454.7	5418.7	5400.7	5296.3	5065.8	4957.8	5184.6	5587.9	5670.7	6419.6	6977.7
30°	5865.1	5911.9	5839.9	5713.9	5393.5	5127.0	5224.2	5537.5	5652.7	6282.8	6938.1
32.5°	6297.2	6322.4	6358.4	6264.8	5850.7	5382.7	5343.1	5584.3	5591.5	6282.8	6848.0
35°	6786.8	6750.8	6844.4	6851.6	6488.0	5836.3	5569.9	5616.7	5692.3	6254.0	6815.6
37.5°	7208.1	7269.3	7377.3	7550.1	7175.7	6477.2	5922.7	5767.9	5800.3	6387.2	6840.8
40°	7668.9	7730.2	7975.0	8147.8	7935.4	7197.3	6459.2	6120.8	6146.0	6585.2	6970.5
42.5°	8176.6	8295.4	8587.1	8889.5	8831.9	8111.8	7150.5	6639.2	6628.4	7078.5	7236.9
45°	8864.3	9022.7	9339.6	9688.8	9739.2	9159.5	8072.2	7413.3	7449.3	7723.0	7787.8
47.5°	9822.0	9814.8	10124.4	10513.3	10804.9	10246.9	9173.9	8453.8	8450.2	8741.9	8605.1
50°	10747.3	10750.9	10833.7	11283.8	12039.9	11755.4	10538.5	9836.4	9796.8	9940.8	9721.2
52.5°	11175.8	11125.4	11064.2	11607.8	12990.4	13656.5	12266.7	11402.6	11370.2	11283.8	11226.2
55°	10725.7	10743.7	10740.1	11305.4	13490.9	15661.9	14484.6	13127.2	13073.2	12803.2	12882.4
57.5°	9281.9	9224.3	9350.4	10232.5	12918.4	17030.1	17656.6	15301.9	15161.5	14265.0	14084.9
60°	6909.3	6927.3	7031.7	8072.2	11496.2	17318.1	20691.7	17854.6	17249.7	15294.7	15046.3
62.5°	4824.6	4788.6	4828.2	5411.5	8219.8	16166.0	22744.0	20958.2	20374.9	16464.8	16320.8
65°	3452.8	3406.0	3564.4	3920.9	4936.2	12360.3	23035.6	25091.5	24569.4	18333.5	17987.8
67.5°	2484.3	2477.1	2660.7	3308.8	3506.8	7118.1	20875.4	28836.0	28519.1	20551.3	19003.1
69°	2055.9	2059.5	2235.9	2963.2	3348.4	4860.6	17962.6	29480.4	29422.8	21696.3	18812.3
70°	1793.0	1807.4	2012.6	2757.9	3283.6	3996.5	15485.5	28846.8	28789.1	21919.5	18182.2
72.5°	1105.3	1116.1	1386.2	2210.7	3121.6	3262.0	9260.3	23600.9	23798.9	20897.0	15665.5
75°	529.3	532.9	727.3	1598.6	3010.0	3092.8	4961.4	17415.3	17833.0	16871.7	12241.5
77.5°	280.8	280.8	349.2	849.7	2437.5	2909.2	2945.2	12284.7	12630.4	10668.1	6959.7
80°	140.4	144.0	212.4	442.9	1512.2	2851.6	2300.7	7326.9	7514.1	4352.9	2167.5
82.5°	54.0	57.6	100.8	266.4	784.9	2408.7	2019.8	3604.0	3557.2	1018.9	529.3
85°	7.2	7.2	36.0	158.4	334.8	1062.1	1667.0	1505.0	1454.6	223.2	255.6
87.5°	0.0	0.0	7.2	46.8	100.8	309.6	644.5	414.1	460.9	61.2	126.0
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°	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2	6729.2
2.5°	6833.6	6758.0	6642.8	6531.2	6412.4	6268.4	6110.0	6052.3	5951.5	5944.3	6001.9
5°	6826.4	6704.0	6502.4	6264.8	5926.3	5670.7	5393.5	5191.8	5037.0	4936.2	4961.4
7.5°	6862.4	6714.8	6365.6	5854.3	5418.7	4911.0	4482.6	4187.3	3917.3	3784.1	3769.7
10°	6804.8	6606.8	6095.6	5379.1	4738.2	4028.9	3402.4	3006.4	2603.1	2455.5	2462.7
12.5°	6837.2	6560.0	5803.9	4889.4	4007.3	3085.6	2336.7	1796.6	1418.6	1296.2	1281.8
15°	6858.8	6459.2	5523.1	4302.5	3197.2	2102.7	1353.8	1018.9	900.1	878.5	874.9
17.5°	6776.0	6336.8	5127.0	3722.9	2369.1	1278.2	900.1	831.7	810.1	795.7	788.5
20°	6772.4	6264.8	4785.0	3128.8	1580.6	871.3	777.7	752.5	720.1	709.3	709.3
22.5°	6711.2	6113.6	4374.5	2477.1	1008.1	748.9	698.5	658.9	622.9	608.5	604.9
25°	6693.2	5937.1	3989.3	1861.4	766.9	669.7	619.3	561.7	518.5	496.9	486.1
27.5°	6642.8	5785.9	3600.4	1310.6	669.7	597.7	532.9	471.7	421.3	388.8	385.2
30°	6462.8	5627.5	3168.4	907.3	608.5	529.3	457.3	385.2	334.8	313.2	306.0
32.5°	6387.2	5479.9	2696.7	698.5	554.5	468.1	385.2	320.4	280.8	259.2	255.6
35°	6297.2	5263.8	2239.5	608.5	504.1	406.9	324.0	270.0	237.6	219.6	219.6
37.5°	6308.0	5091.0	1811.0	550.9	450.1	349.2	277.2	230.4	201.6	183.6	183.6
40°	6275.6	4954.2	1407.8	500.5	399.6	298.8	234.0	194.4	169.2	151.2	147.6
42.5°	6423.2	4918.2	1062.1	457.3	349.2	255.6	201.6	165.6	140.4	118.8	118.8
45°	6671.6	4975.8	828.1	417.7	298.8	219.6	172.8	136.8	111.6	97.2	93.6
47.5°	7334.1	5202.6	648.1	385.2	255.6	190.8	144.0	111.6	90.0	75.6	72.0
50°	8295.4	5710.3	550.9	338.4	216.0	162.0	118.8	86.4	72.0	57.6	54.0
52.5°	9663.6	6563.6	500.5	298.8	180.0	133.2	93.6	68.4	54.0	43.2	39.6
55°	11154.2	7629.3	453.7	252.0	151.2	108.0	75.6	54.0	39.6	28.8	25.2
57.5°	12317.1	8551.1	414.1	208.8	122.4	86.4	57.6	39.6	28.8	18.0	14.4
60°	13588.1	9199.1	363.6	165.6	100.8	64.8	43.2	28.8	21.6	10.8	10.8
62.5°	14898.6	9958.8	298.8	129.6	79.2	50.4	32.4	21.6	14.4	3.6	3.6
65°	16720.5	10552.9	230.4	100.8	61.2	36.0	25.2	18.0	7.2	0.0	0.0
67.5°	17235.3	10261.3	169.2	79.2	43.2	25.2	18.0	10.8	3.6	0.0	0.0
69°	16720.5	9242.3	147.6	68.4	36.0	21.6	14.4	7.2	3.6	0.0	0.0
70°	15780.7	8450.2	129.6	57.6	32.4	21.6	10.8	7.2	3.6	0.0	0.0
72.5°	13199.2	6480.8	100.8	43.2	25.2	18.0	10.8	7.2	0.0	0.0	0.0
75°	9681.6	4003.7	75.6	32.4	21.6	14.4	10.8	7.2	0.0	0.0	0.0
77.5°	5188.2	1461.8	54.0	21.6	14.4	10.8	10.8	7.2	0.0	0.0	0.0
80°	1422.2	432.1	39.6	14.4	10.8	7.2	7.2	3.6	0.0	0.0	0.0
82.5°	388.8	111.6	25.2	14.4	10.8	7.2	3.6	0.0	0.0	0.0	0.0
85°	208.8	43.2	14.4	10.8	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	108.0	14.4	10.8	7.2	7.2	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)