

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: P483997

Luminaire Tested: **IFLD-L-SA8A-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483997
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

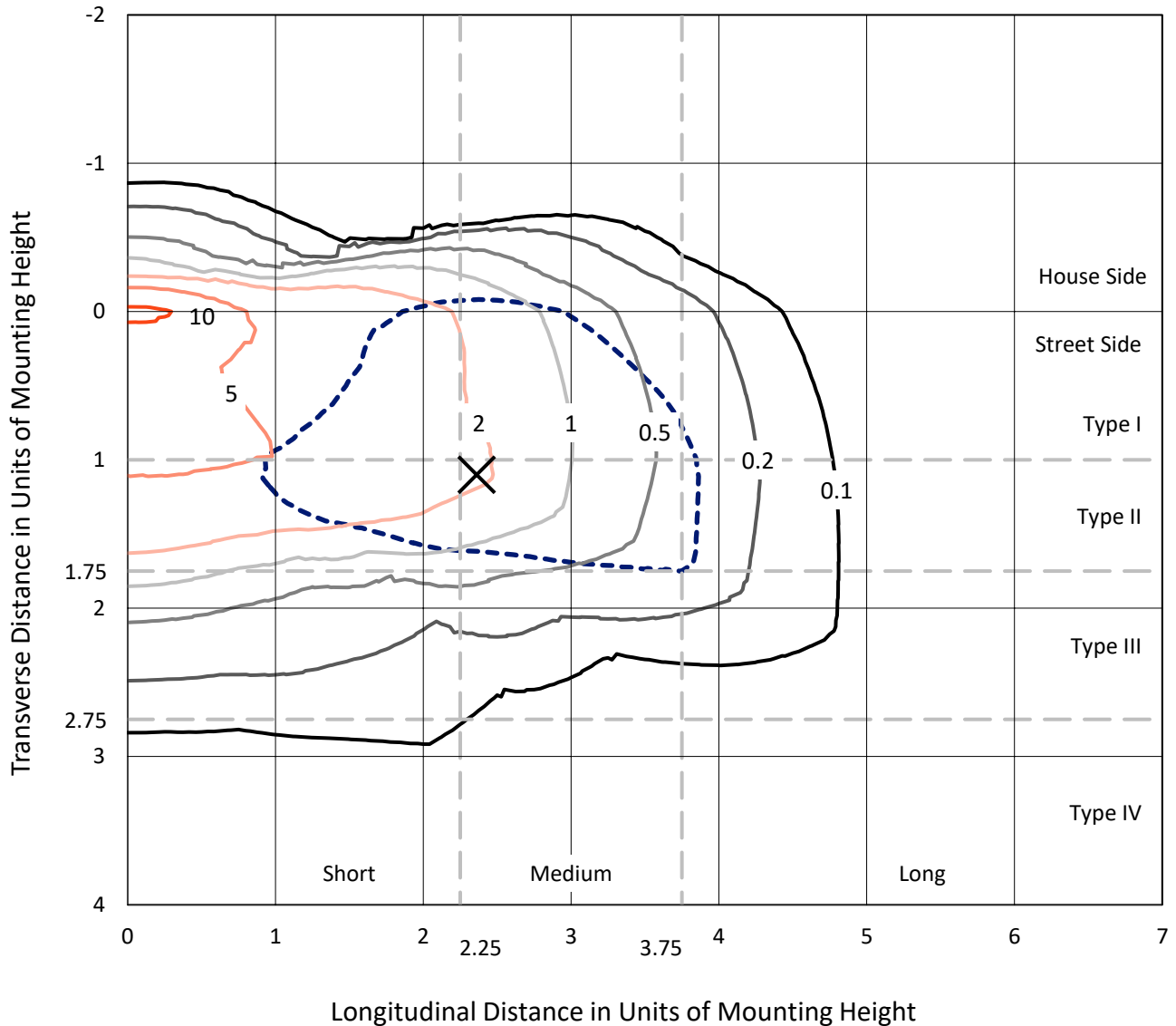
Lumens per Lamp: N/A
Luminaire Lumens: 27808.4 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

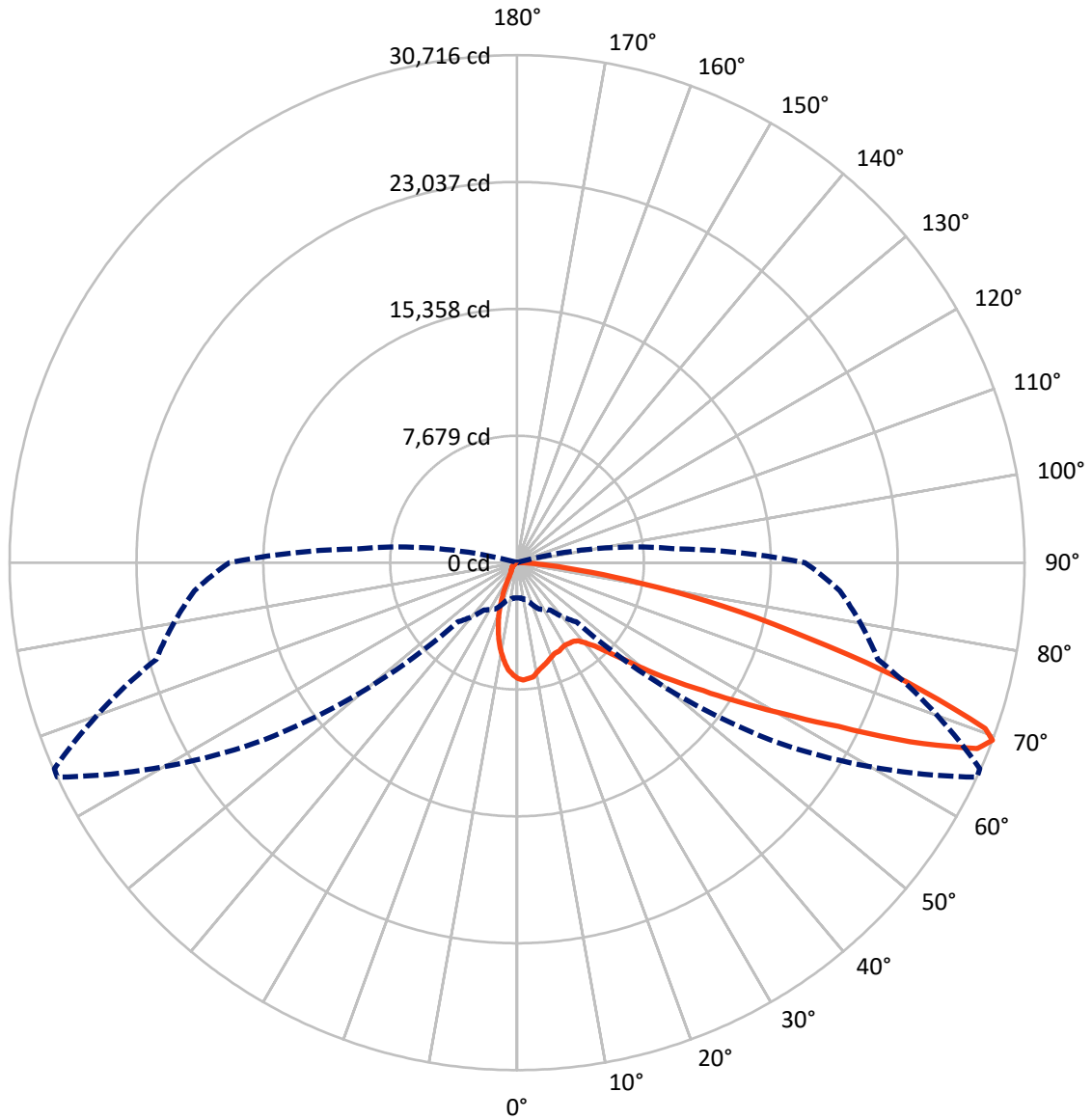
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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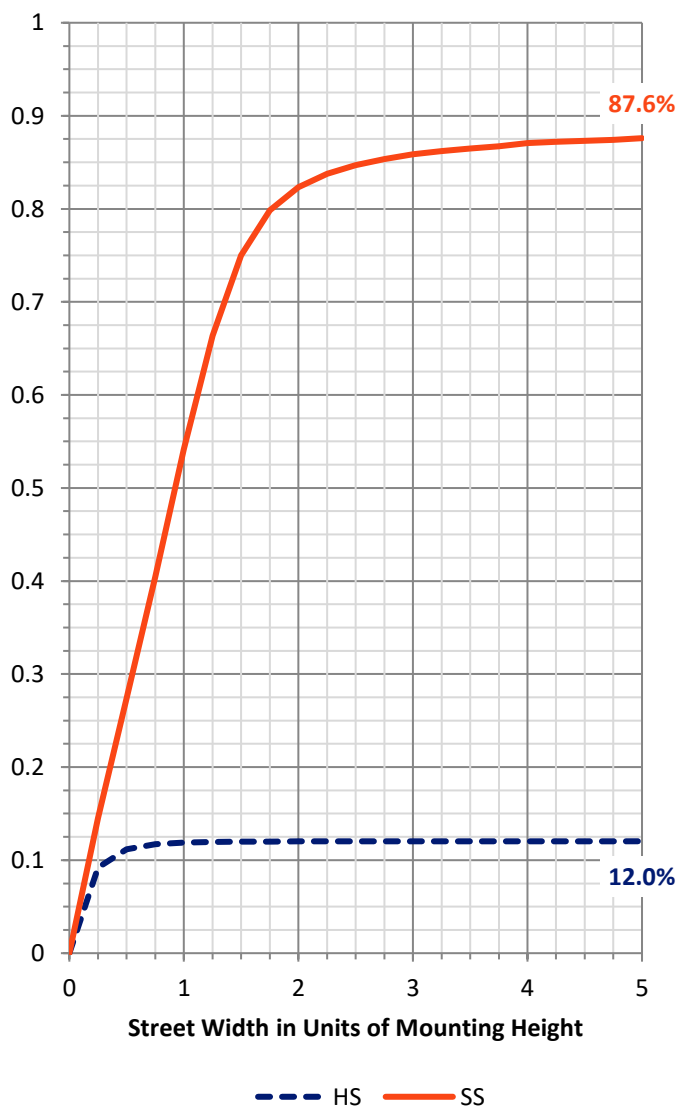
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3373.3	0.0	3373.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	24435.1	0.0	24435.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	27808.4	0.0	27808.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.7	2.1
10°-20°	1255.3	4.5
20°-30°	1747.7	6.3
30°-40°	2476.7	8.9
40°-50°	3903.1	14.0
50°-60°	6333.5	22.8
60°-70°	7073.2	25.4
70°-80°	3983.0	14.3
80°-90°	462.2	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°	27808.4	100.0
0°-180°	27808.4	100.0

Coefficient of Utilization



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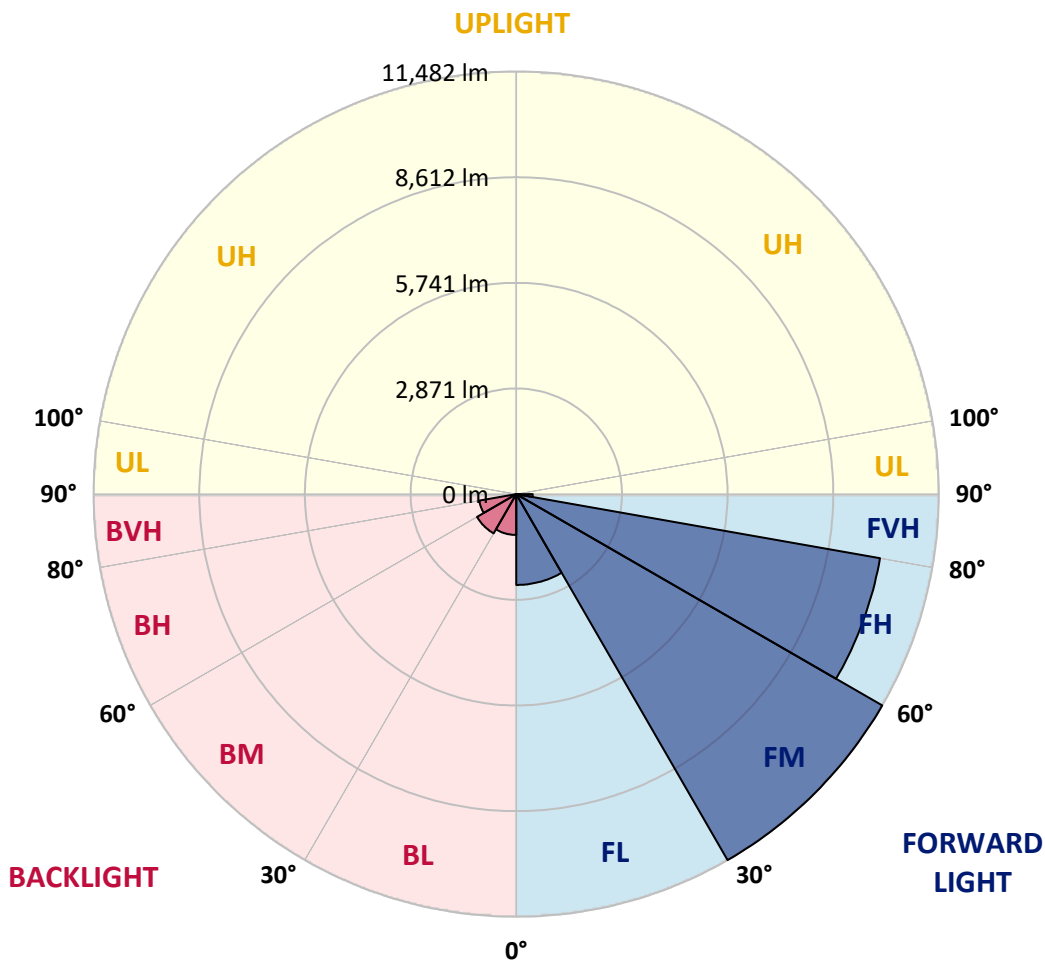
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.7	8.9			
FM (30°-60°)	11482.4	41.3			
FH (60°-80°)	10035.6	36.1			G4/12000
FVH (80°-90°)	449.4	1.6			G3/500
BL (0°-30°)	1109.1	4.0	B3/2500		
BM (30°-60°)	1230.9	4.4	B2/2500		
BH (60°-80°)	1020.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	12.8	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1
2.5°	6752.3	6804.8	6819.8	6872.3	6898.6	7011.1	7074.9	7112.4	7093.7	7134.9	7138.7
5°	6272.1	6242.1	6320.9	6377.2	6497.2	6692.3	6891.1	7044.9	7116.2	7183.7	7172.5
7.5°	5758.2	5743.2	5822.0	5949.5	6058.3	6294.7	6613.5	6992.4	6977.4	7142.4	7191.2
10°	5405.6	5420.6	5446.9	5574.4	5735.7	5975.8	6373.4	6726.0	6804.8	7153.7	7251.2
12.5°	5083.0	5109.2	5158.0	5289.3	5476.9	5724.5	6110.8	6523.5	6643.5	7089.9	7285.0
15°	4978.0	4917.9	5015.5	5113.0	5308.1	5529.4	5855.8	6369.7	6422.2	7014.9	7341.3
17.5°	4891.7	4854.2	4899.2	4978.0	5184.3	5364.3	5671.9	6204.6	6302.2	6984.9	7333.8
20°	4917.9	4884.2	4902.9	4962.9	5056.7	5225.5	5510.6	6047.1	6152.1	6846.1	7322.5
22.5°	4993.0	5019.2	4985.5	5000.5	5030.5	5116.7	5424.4	5934.5	6024.6	6819.8	7386.3
25°	5330.6	5285.6	5240.5	5221.8	5045.5	5083.0	5398.1	5927.0	5990.8	6726.0	7333.8
27.5°	5683.2	5645.7	5626.9	5518.1	5278.1	5165.5	5401.8	5822.0	5908.3	6688.5	7270.0
30°	6110.8	6159.6	6084.6	5953.3	5619.4	5341.8	5443.1	5769.5	5889.5	6546.0	7228.7
32.5°	6561.0	6587.3	6624.8	6527.2	6095.8	5608.2	5566.9	5818.2	5825.7	6546.0	7134.9
35°	7071.2	7033.7	7131.2	7138.7	6759.8	6080.8	5803.2	5852.0	5930.8	6516.0	7101.2
37.5°	7510.1	7573.8	7686.4	7866.4	7476.3	6748.6	6170.9	6009.6	6043.3	6654.8	7127.4
40°	7990.2	8054.0	8309.1	8489.2	8267.8	7498.8	6729.8	6377.2	6403.4	6861.1	7262.5
42.5°	8519.2	8643.0	8946.8	9261.9	9201.9	8451.6	7450.0	6917.4	6906.1	7375.0	7540.1
45°	9235.7	9400.7	9730.8	10094.7	10147.2	9543.3	8410.4	7723.9	7761.4	8046.5	8114.0
47.5°	10233.5	10226.0	10548.6	10953.7	11257.6	10676.1	9558.3	8808.0	8804.3	9108.1	8965.6
50°	11197.6	11201.3	11287.6	11756.5	12544.3	12247.9	10980.0	10248.5	10207.2	10357.3	10128.5
52.5°	11644.0	11591.5	11527.7	12094.1	13534.6	14228.6	12780.6	11880.3	11846.5	11756.5	11696.5
55°	11175.1	11193.8	11190.1	11779.0	14056.1	16318.1	15091.4	13677.2	13620.9	13339.6	13422.1
57.5°	9670.8	9610.8	9742.1	10661.1	13459.6	17743.6	18396.3	15942.9	15796.6	14862.6	14675.0
60°	7198.7	7217.5	7326.3	8410.4	11977.8	18043.7	21558.6	18602.6	17972.4	15935.4	15676.6
62.5°	5026.7	4989.2	5030.5	5638.2	8564.2	16843.3	23696.8	21836.2	21228.5	17154.6	17004.6
65°	3597.5	3548.7	3713.8	4085.1	5143.0	12878.2	24000.7	26142.7	25598.7	19101.5	18741.4
67.5°	2588.4	2580.9	2772.2	3447.4	3653.7	7416.3	21749.9	30044.0	29713.9	21412.3	19799.3
69°	2142.0	2145.7	2329.5	3087.3	3488.7	5064.2	18715.1	30715.5	30655.5	22605.2	19600.4
70°	1868.1	1883.1	2097.0	2873.5	3421.2	4163.9	16134.3	30055.3	29995.3	22837.8	18944.0
72.5°	1151.6	1162.9	1444.2	2303.3	3252.4	3398.7	9648.3	24589.7	24796.0	21772.4	16321.8
75°	551.4	555.2	757.8	1665.6	3136.1	3222.4	5169.3	18145.0	18580.1	17578.5	12754.4
77.5°	292.6	292.6	363.9	885.3	2539.6	3031.0	3068.5	12799.4	13159.5	11115.0	7251.2
80°	146.3	150.1	221.3	461.4	1575.5	2971.0	2397.1	7633.9	7828.9	4535.3	2258.3
82.5°	56.3	60.0	105.0	277.6	817.8	2509.6	2104.5	3755.0	3706.3	1061.6	551.4
85°	7.5	7.5	37.5	165.1	348.9	1106.6	1736.8	1568.0	1515.5	232.6	266.3
87.5°	0.0	0.0	7.5	48.8	105.0	322.6	671.5	431.4	480.2	63.8	131.3
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°	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1	7011.1
2.5°	7119.9	7041.2	6921.1	6804.8	6681.0	6531.0	6365.9	6305.9	6200.9	6193.4	6253.4
5°	7112.4	6984.9	6774.8	6527.2	6174.6	5908.3	5619.4	5409.3	5248.0	5143.0	5169.3
7.5°	7149.9	6996.1	6632.3	6099.6	5645.7	5116.7	4670.3	4362.7	4081.4	3942.6	3927.6
10°	7089.9	6883.6	6350.9	5604.4	4936.7	4197.7	3545.0	3132.3	2712.2	2558.4	2565.9
12.5°	7123.7	6834.8	6047.1	5094.2	4175.2	3214.8	2434.6	1871.9	1478.0	1350.5	1335.5
15°	7146.2	6729.8	5754.5	4482.8	3331.1	2190.7	1410.5	1061.6	937.8	915.3	911.6
17.5°	7059.9	6602.3	5341.8	3878.8	2468.3	1331.7	937.8	866.5	844.0	829.0	821.5
20°	7056.2	6527.2	4985.5	3259.9	1646.8	907.8	810.3	784.0	750.3	739.0	739.0
22.5°	6992.4	6369.7	4557.8	2580.9	1050.4	780.3	727.7	686.5	649.0	634.0	630.2
25°	6973.6	6185.9	4156.4	1939.4	799.0	697.7	645.2	585.2	540.2	517.7	506.4
27.5°	6921.1	6028.3	3751.3	1365.5	697.7	622.7	555.2	491.4	438.9	405.1	401.4
30°	6733.6	5863.3	3301.1	945.3	634.0	551.4	476.4	401.4	348.9	326.4	318.9
32.5°	6654.8	5709.5	2809.7	727.7	577.7	487.7	401.4	333.9	292.6	270.1	266.3
35°	6561.0	5484.4	2333.3	634.0	525.2	423.9	337.6	281.3	247.6	228.8	228.8
37.5°	6572.2	5304.3	1886.9	573.9	468.9	363.9	288.8	240.1	210.1	191.3	191.3
40°	6538.5	5161.8	1466.8	521.4	416.4	311.4	243.8	202.6	176.3	157.6	153.8
42.5°	6692.3	5124.3	1106.6	476.4	363.9	266.3	210.1	172.6	146.3	123.8	123.8
45°	6951.1	5184.3	862.8	435.1	311.4	228.8	180.1	142.5	116.3	101.3	97.5
47.5°	7641.4	5420.6	675.2	401.4	266.3	198.8	150.1	116.3	93.8	78.8	75.0
50°	8643.0	5949.5	573.9	352.6	225.1	168.8	123.8	90.0	75.0	60.0	56.3
52.5°	10068.4	6838.6	521.4	311.4	187.6	138.8	97.5	71.3	56.3	45.0	41.3
55°	11621.5	7949.0	472.7	262.6	157.6	112.5	78.8	56.3	41.3	30.0	26.3
57.5°	12833.1	8909.3	431.4	217.6	127.5	90.0	60.0	41.3	30.0	18.8	15.0
60°	14157.3	9584.5	378.9	172.6	105.0	67.5	45.0	30.0	22.5	11.3	11.3
62.5°	15522.8	10376.0	311.4	135.0	82.5	52.5	33.8	22.5	15.0	3.8	3.8
65°	17421.0	10995.0	240.1	105.0	63.8	37.5	26.3	18.8	7.5	0.0	0.0
67.5°	17957.4	10691.2	176.3	82.5	45.0	26.3	18.8	11.3	3.8	0.0	0.0
69°	17421.0	9629.5	153.8	71.3	37.5	22.5	15.0	7.5	3.8	0.0	0.0
70°	16441.9	8804.3	135.0	60.0	33.8	22.5	11.3	7.5	3.8	0.0	0.0
72.5°	13752.2	6752.3	105.0	45.0	26.3	18.8	11.3	7.5	0.0	0.0	0.0
75°	10087.2	4171.4	78.8	33.8	22.5	15.0	11.3	7.5	0.0	0.0	0.0
77.5°	5405.6	1523.0	56.3	22.5	15.0	11.3	11.3	7.5	0.0	0.0	0.0
80°	1481.8	450.2	41.3	15.0	11.3	7.5	7.5	3.8	0.0	0.0	0.0
82.5°	405.1	116.3	26.3	15.0	11.3	7.5	3.8	0.0	0.0	0.0	0.0
85°	217.6	45.0	15.0	11.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	112.5	15.0	11.3	7.5	7.5	3.8	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)