

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: P483961

Luminaire Tested: **IFLD-L-SA8D-730-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483961
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

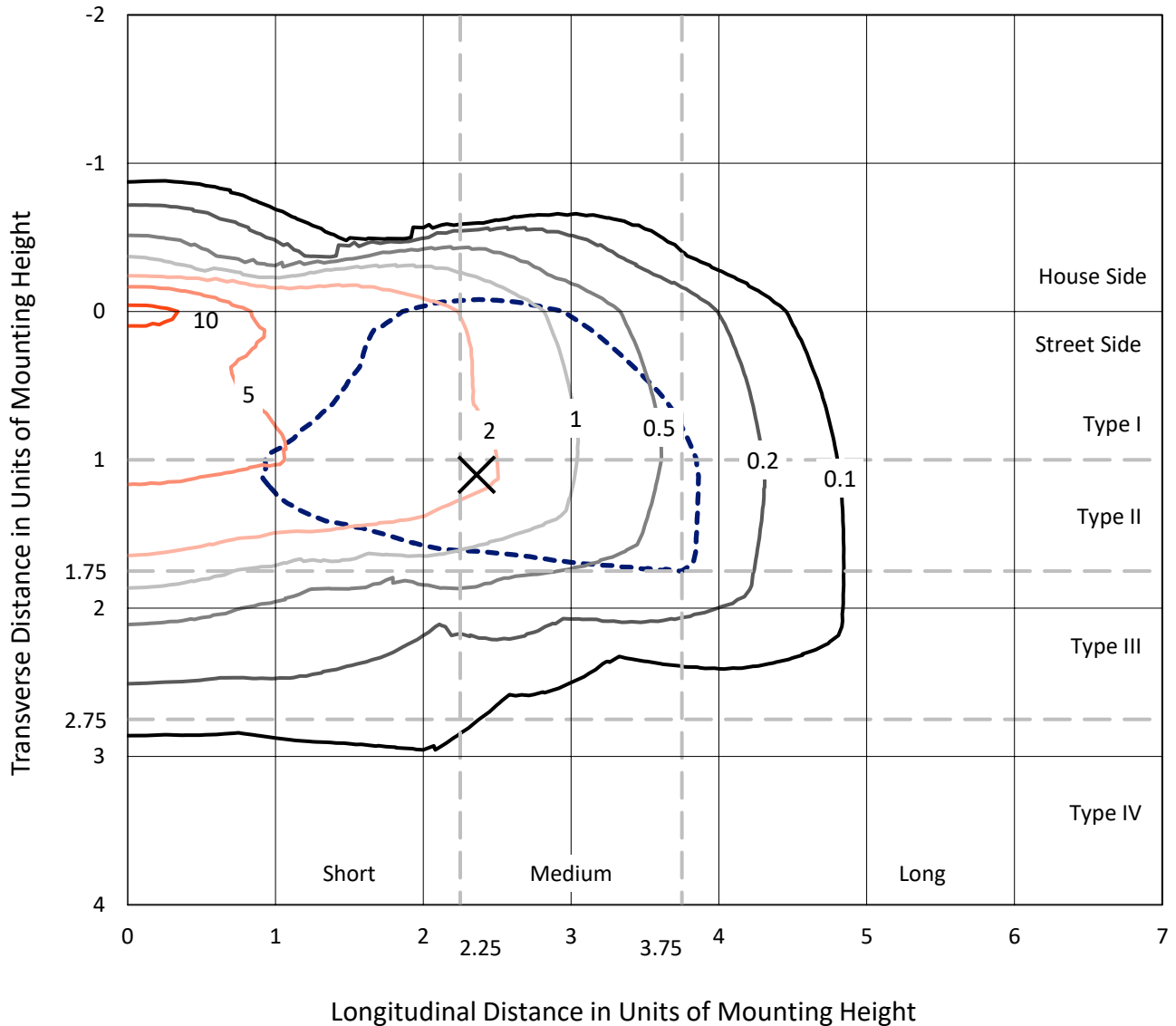
Lumens per Lamp: N/A
Luminaire Lumens: 41781.3 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

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Iso-Footcandle Lines of Horizontal Illumination

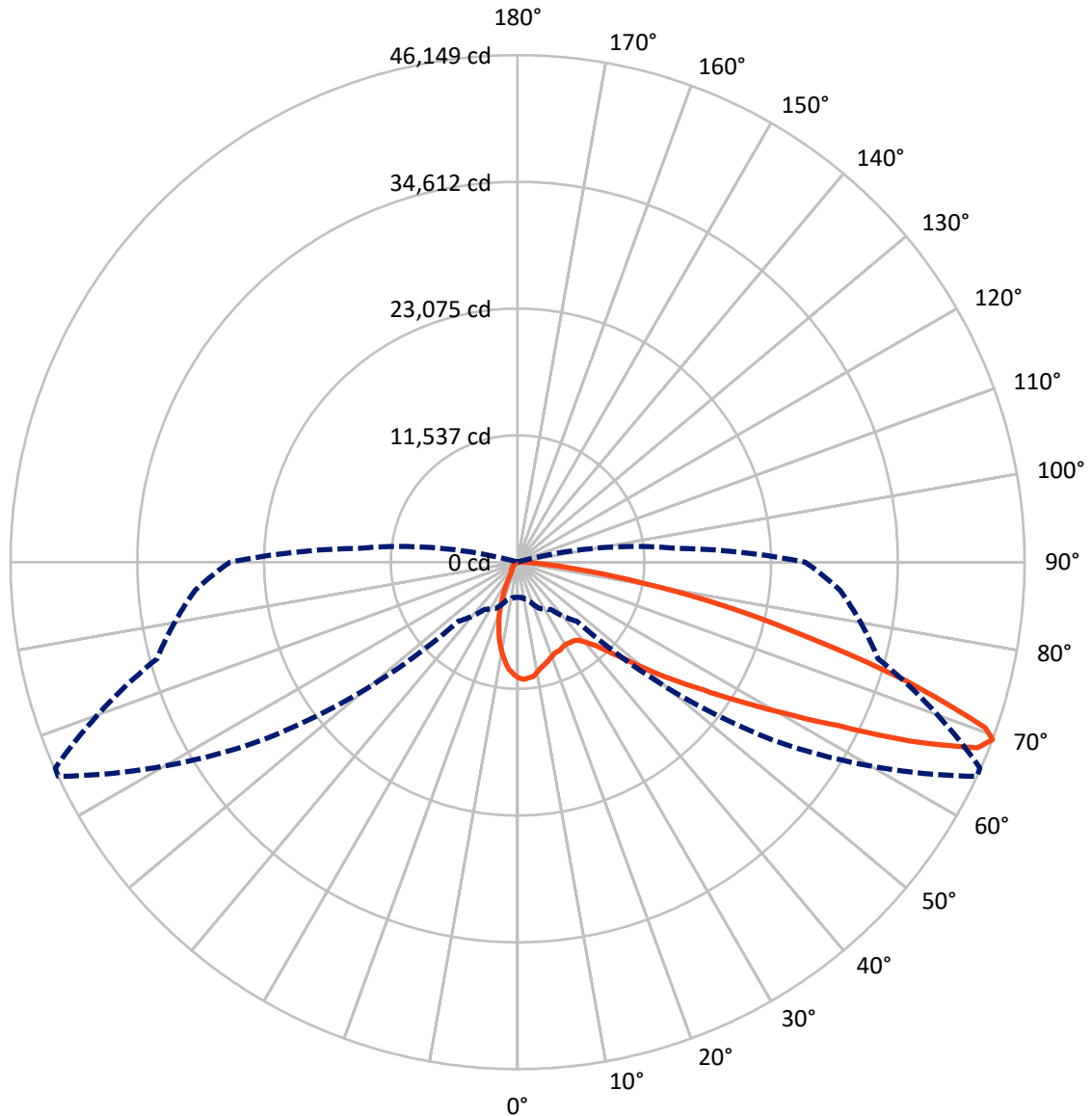
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 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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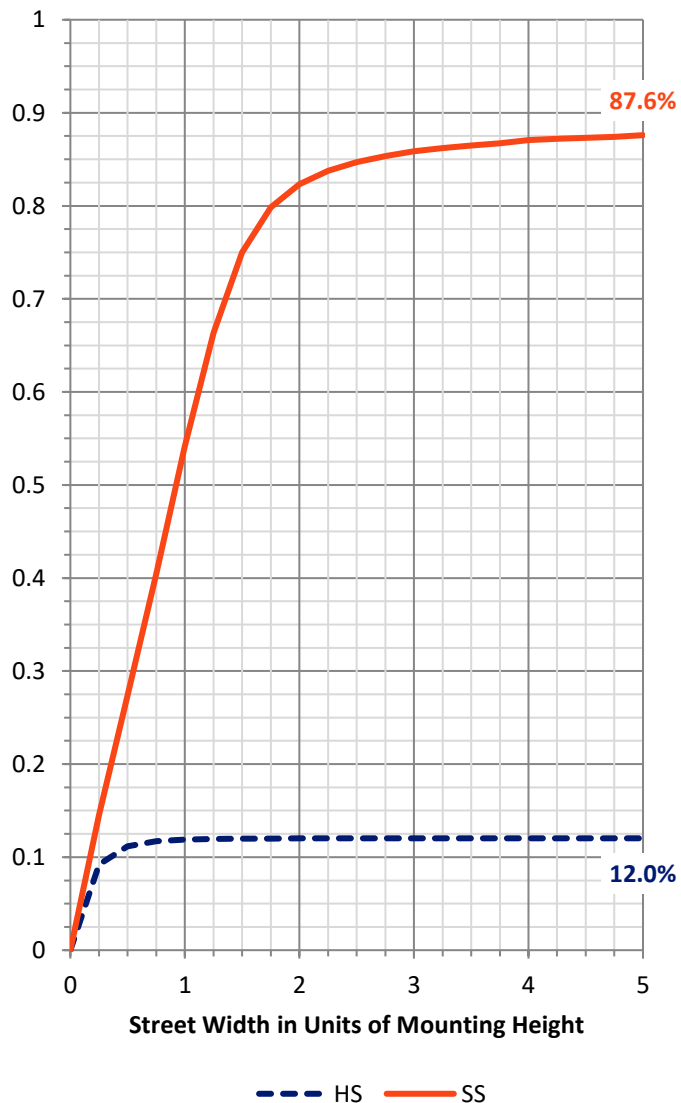
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5068.3	0.0	5068.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	36713.0	0.0	36713.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	41781.3	0.0	41781.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.0	2.1
10°-20°	1886.1	4.5
20°-30°	2625.9	6.3
30°-40°	3721.1	8.9
40°-50°	5864.3	14.0
50°-60°	9515.8	22.8
60°-70°	10627.2	25.4
70°-80°	5984.3	14.3
80°-90°	694.4	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°	41781.3	100.0
0°-180°	41781.3	100.0

Coefficient of Utilization



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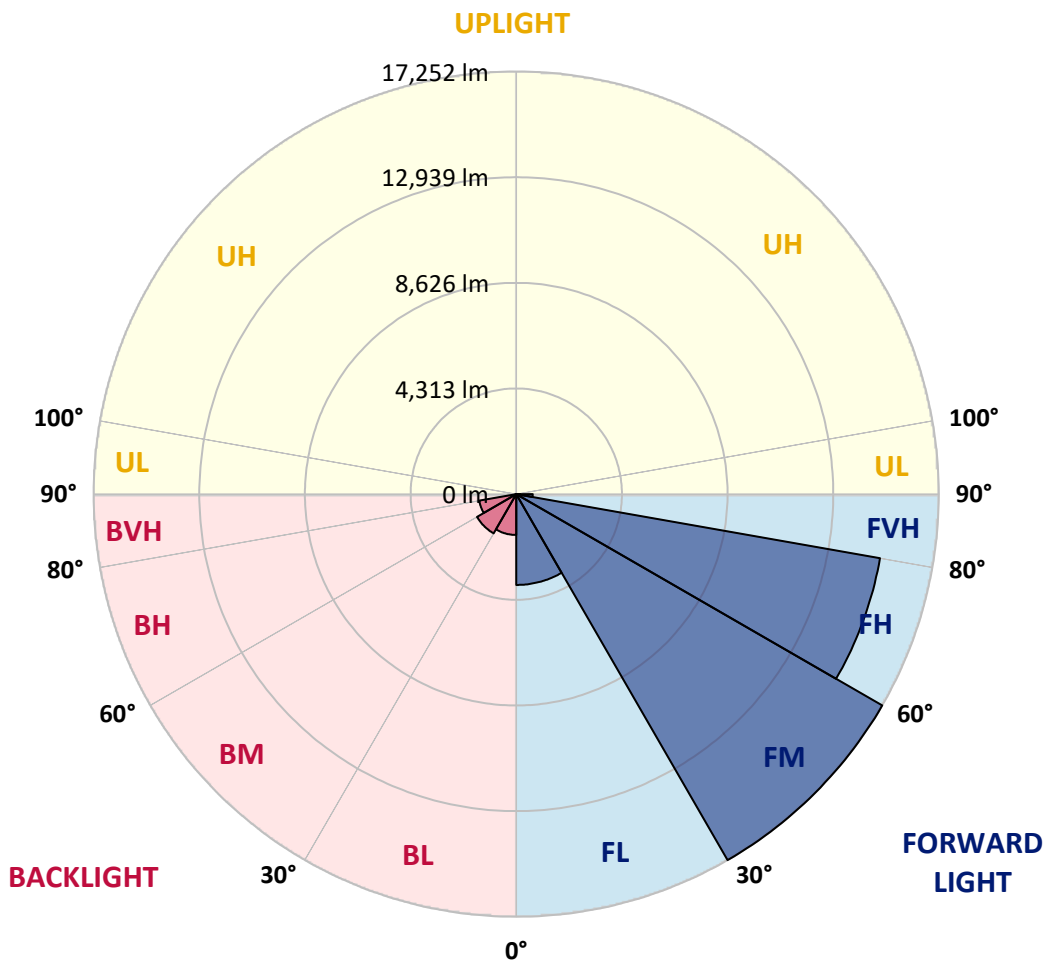
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3707.7	8.9			
FM (30°-60°)	17251.9	41.3			
FH (60°-80°)	15078.1	36.1			G5
FVH (80°-90°)	675.3	1.6			G4/750
BL (0°-30°)	1666.3	4.0	B3/2500		
BM (30°-60°)	1849.4	4.4	B2/2500		
BH (60°-80°)	1533.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	19.2	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0
2.5°	10145.1	10224.0	10246.6	10325.5	10364.9	10534.0	10629.8	10686.2	10658.0	10720.0	10725.7
5°	9423.7	9378.6	9497.0	9581.5	9761.9	10055.0	10353.7	10584.8	10691.8	10793.3	10776.4
7.5°	8651.5	8629.0	8747.4	8939.0	9102.4	9457.5	9936.6	10505.8	10483.3	10731.3	10804.6
10°	8121.7	8144.3	8183.7	8375.4	8617.7	8978.4	9575.9	10105.7	10224.0	10748.2	10894.7
12.5°	7637.0	7676.5	7749.8	7947.0	8228.8	8600.8	9181.3	9801.3	9981.7	10652.4	10945.5
15°	7479.2	7389.0	7535.6	7682.1	7975.2	8307.7	8798.1	9570.2	9649.1	10539.7	11030.0
17.5°	7349.6	7293.2	7360.9	7479.2	7789.2	8059.7	8521.9	9322.2	9468.8	10494.6	11018.7
20°	7389.0	7338.3	7366.5	7456.7	7597.6	7851.2	8279.6	9085.5	9243.3	10286.0	11001.8
22.5°	7501.8	7541.2	7490.5	7513.0	7558.1	7687.8	8149.9	8916.4	9051.7	10246.6	11097.6
25°	8009.0	7941.4	7873.8	7845.6	7580.7	7637.0	8110.5	8905.2	9001.0	10105.7	11018.7
27.5°	8538.8	8482.5	8454.3	8290.8	7930.1	7761.0	8116.1	8747.4	8877.0	10049.3	10922.9
30°	9181.3	9254.6	9141.9	8944.6	8443.0	8025.9	8178.1	8668.5	8848.8	9835.1	10860.9
32.5°	9857.7	9897.1	9953.5	9807.0	9158.8	8426.1	8364.1	8741.7	8753.0	9835.1	10720.0
35°	10624.2	10567.8	10714.4	10725.7	10156.4	9136.3	8719.2	8792.4	8910.8	9790.1	10669.3
37.5°	11283.6	11379.5	11548.5	11819.1	11232.9	10139.5	9271.5	9029.2	9079.9	9998.6	10708.8
40°	12005.1	12100.9	12484.1	12754.7	12422.2	11266.7	10111.3	9581.5	9621.0	10308.6	10911.7
42.5°	12799.8	12985.8	13442.3	13915.7	13825.6	12698.3	11193.5	10393.1	10376.2	11080.7	11328.7
45°	13876.3	14124.3	14620.3	15167.0	15245.9	14338.5	12636.3	11604.9	11661.3	12089.6	12191.1
47.5°	15375.5	15364.2	15849.0	16457.7	16914.2	16040.6	14361.0	13233.8	13228.1	13684.7	13470.5
50°	16824.0	16829.6	16959.3	17663.8	18847.4	18402.1	16497.1	15398.1	15336.1	15561.5	15217.7
52.5°	17494.7	17415.8	17320.0	18171.1	20335.4	21378.0	19202.5	17849.8	17799.1	17663.8	17573.6
55°	16790.2	16818.4	16812.7	17697.6	21118.8	24517.4	22674.4	20549.5	20465.0	20042.3	20166.3
57.5°	14530.1	14439.9	14637.2	16018.0	20222.6	26659.2	27639.9	23953.8	23734.0	22330.6	22048.8
60°	10815.8	10844.0	11007.5	12636.3	17996.3	27110.0	32391.2	27949.8	27003.0	23942.5	23553.6
62.5°	7552.5	7496.1	7558.1	8471.2	12867.4	25306.5	35603.8	32808.2	31895.2	25774.3	25548.8
65°	5405.1	5331.8	5579.8	6137.8	7727.2	19349.0	36060.3	39278.6	38461.3	28699.5	28158.4
67.5°	3889.0	3877.7	4165.1	5179.7	5489.6	11142.7	32678.6	45140.2	44644.2	32171.3	29747.8
69°	3218.3	3223.9	3500.1	4638.6	5241.7	7608.8	28118.9	46149.1	46058.9	33963.7	29449.1
70°	2806.8	2829.4	3150.6	4317.3	5140.2	6256.2	24241.2	45157.1	45066.9	34313.1	28462.7
72.5°	1730.3	1747.2	2169.9	3460.6	4886.6	5106.4	14496.3	36945.2	37255.2	32712.4	24523.0
75°	828.5	834.2	1138.5	2502.5	4711.9	4841.5	7766.7	27262.2	27916.0	26411.2	19163.0
77.5°	439.6	439.6	546.7	1330.1	3815.7	4554.0	4610.4	19230.7	19771.7	16700.0	10894.7
80°	219.8	225.4	332.5	693.3	2367.2	4463.9	3601.5	11469.6	11762.7	6814.1	3393.0
82.5°	84.5	90.2	157.8	417.1	1228.7	3770.6	3161.9	5641.8	5568.6	1595.0	828.5
85°	11.3	11.3	56.4	248.0	524.2	1662.7	2609.6	2355.9	2277.0	349.4	400.2
87.5°	0.0	0.0	11.3	73.3	157.8	484.7	1008.9	648.2	721.4	95.8	197.3
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°	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0	10534.0
2.5°	10697.5	10579.1	10398.8	10224.0	10038.0	9812.6	9564.6	9474.4	9316.6	9305.3	9395.5
5°	10686.2	10494.6	10179.0	9807.0	9277.2	8877.0	8443.0	8127.4	7885.0	7727.2	7766.7
7.5°	10742.6	10511.5	9964.8	9164.4	8482.5	7687.8	7017.1	6554.9	6132.2	5923.6	5901.1
10°	10652.4	10342.4	9542.1	8420.5	7417.2	6306.9	5326.2	4706.2	4075.0	3843.9	3855.2
12.5°	10703.1	10269.1	9085.5	7653.9	6273.1	4830.2	3657.9	2812.5	2220.7	2029.0	2006.5
15°	10736.9	10111.3	8645.9	6735.2	5004.9	3291.5	2119.2	1595.0	1409.0	1375.2	1369.6
17.5°	10607.3	9919.7	8025.9	5827.8	3708.6	2000.8	1409.0	1302.0	1268.1	1245.6	1234.3
20°	10601.7	9807.0	7490.5	4897.8	2474.3	1364.0	1217.4	1178.0	1127.2	1110.3	1110.3
22.5°	10505.8	9570.2	6848.0	3877.7	1578.1	1172.3	1093.4	1031.4	975.1	952.5	946.9
25°	10477.7	9294.1	6244.9	2913.9	1200.5	1048.3	969.4	879.2	811.6	777.8	760.9
27.5°	10398.8	9057.3	5636.2	2051.6	1048.3	935.6	834.2	738.3	659.4	608.7	603.1
30°	10117.0	8809.4	4959.8	1420.3	952.5	828.5	715.8	603.1	524.2	490.3	479.1
32.5°	9998.6	8578.3	4221.5	1093.4	868.0	732.7	603.1	501.6	439.6	405.8	400.2
35°	9857.7	8240.1	3505.7	952.5	789.1	636.9	507.3	422.7	372.0	343.8	343.8
37.5°	9874.6	7969.6	2835.0	862.3	704.5	546.7	434.0	360.7	315.6	287.4	287.4
40°	9823.9	7755.4	2203.7	783.4	625.6	467.8	366.4	304.4	264.9	236.7	231.1
42.5°	10055.0	7699.0	1662.7	715.8	546.7	400.2	315.6	259.3	219.8	186.0	186.0
45°	10443.9	7789.2	1296.3	653.8	467.8	343.8	270.5	214.2	174.7	152.2	146.5
47.5°	11480.9	8144.3	1014.5	603.1	400.2	298.7	225.4	174.7	140.9	118.4	112.7
50°	12985.8	8939.0	862.3	529.8	338.2	253.6	186.0	135.3	112.7	90.2	84.5
52.5°	15127.5	10274.8	783.4	467.8	281.8	208.5	146.5	107.1	84.5	67.6	62.0
55°	17460.9	11943.1	710.2	394.5	236.7	169.1	118.4	84.5	62.0	45.1	39.5
57.5°	19281.4	13385.9	648.2	326.9	191.6	135.3	90.2	62.0	45.1	28.2	22.5
60°	21271.0	14400.5	569.3	259.3	157.8	101.5	67.6	45.1	33.8	16.9	16.9
62.5°	23322.5	15589.7	467.8	202.9	124.0	78.9	50.7	33.8	22.5	5.6	5.6
65°	26174.4	16519.7	360.7	157.8	95.8	56.4	39.5	28.2	11.3	0.0	0.0
67.5°	26980.4	16063.1	264.9	124.0	67.6	39.5	28.2	16.9	5.6	0.0	0.0
69°	26174.4	14468.1	231.1	107.1	56.4	33.8	22.5	11.3	5.6	0.0	0.0
70°	24703.4	13228.1	202.9	90.2	50.7	33.8	16.9	11.3	5.6	0.0	0.0
72.5°	20662.3	10145.1	157.8	67.6	39.5	28.2	16.9	11.3	0.0	0.0	0.0
75°	15155.7	6267.4	118.4	50.7	33.8	22.5	16.9	11.3	0.0	0.0	0.0
77.5°	8121.7	2288.3	84.5	33.8	22.5	16.9	16.9	11.3	0.0	0.0	0.0
80°	2226.3	676.3	62.0	22.5	16.9	11.3	11.3	5.6	0.0	0.0	0.0
82.5°	608.7	174.7	39.5	22.5	16.9	11.3	5.6	0.0	0.0	0.0	0.0
85°	326.9	67.6	22.5	16.9	11.3	5.6	0.0	0.0	0.0	0.0	0.0
87.5°	169.1	22.5	16.9	11.3	11.3	5.6	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)