

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: P483878

Luminaire Tested: **IFLD-L-SA7D-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483878
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

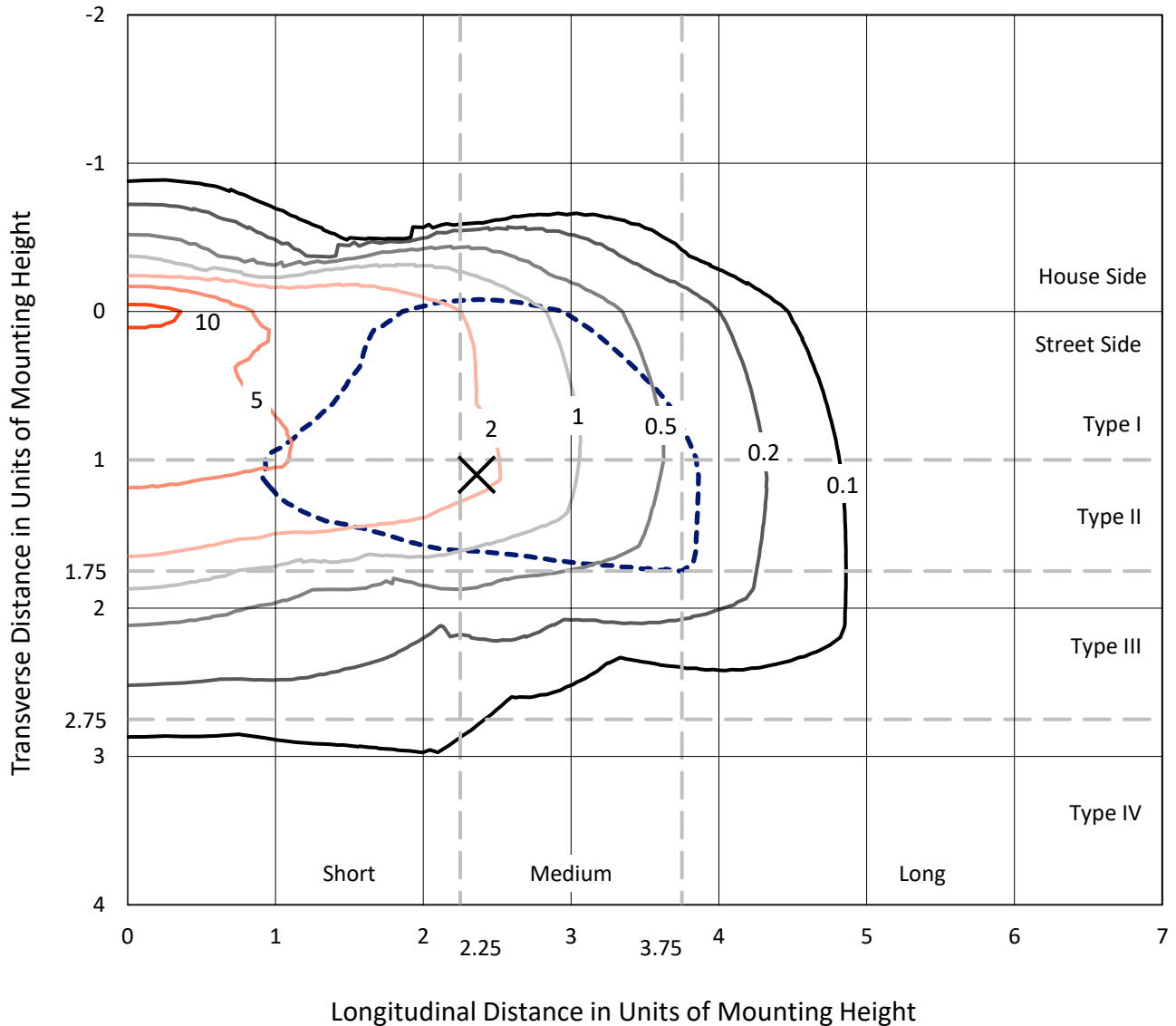
Lumens per Lamp: N/A
Luminaire Lumens: 29572.8 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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

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Iso-Footcandle Lines of Horizontal Illumination

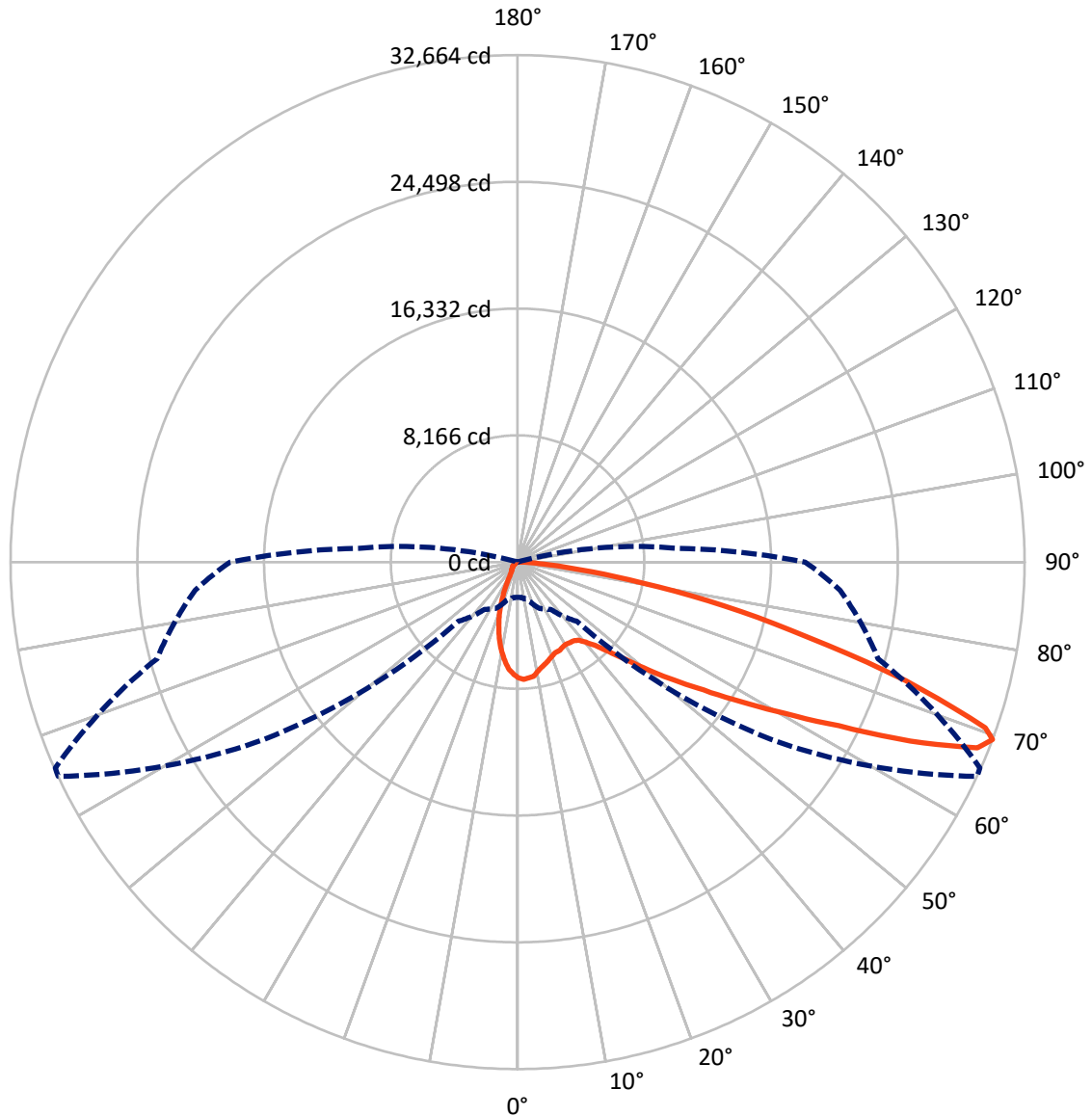
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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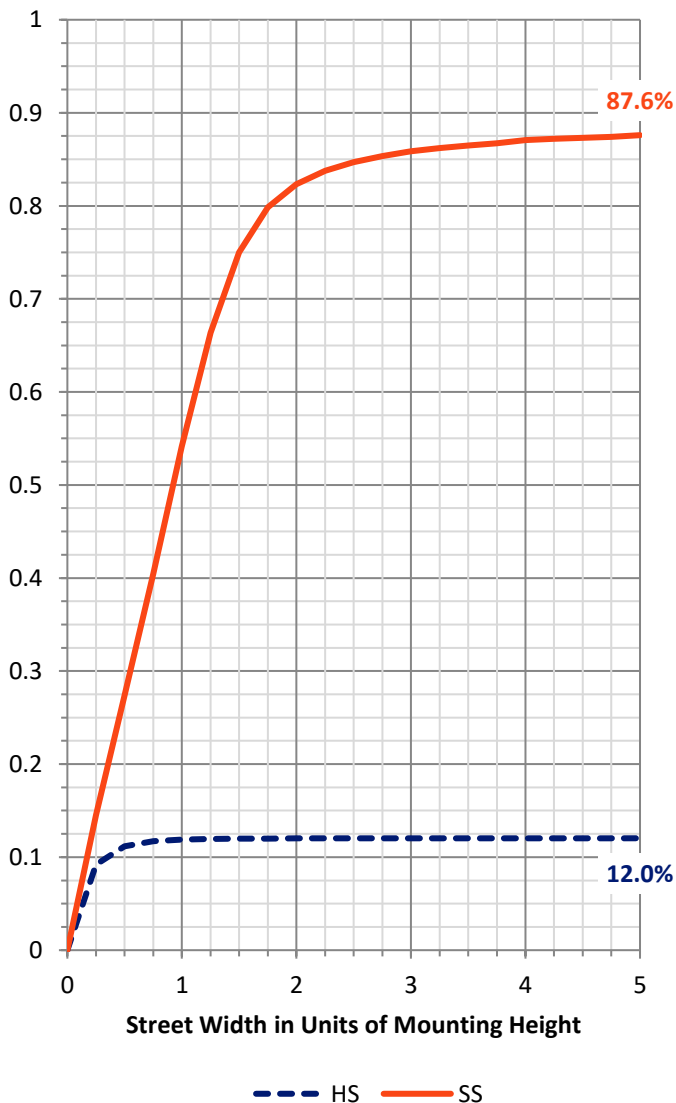
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3587.4	0.0	3587.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	25985.5	0.0	25985.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	29572.8	0.0	29572.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.1	2.1
10°-20°	1335.0	4.5
20°-30°	1858.6	6.3
30°-40°	2633.8	8.9
40°-50°	4150.8	14.0
50°-60°	6735.3	22.8
60°-70°	7522.0	25.4
70°-80°	4235.7	14.3
80°-90°	491.5	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°	29572.8	100.0
0°-180°	29572.8	100.0



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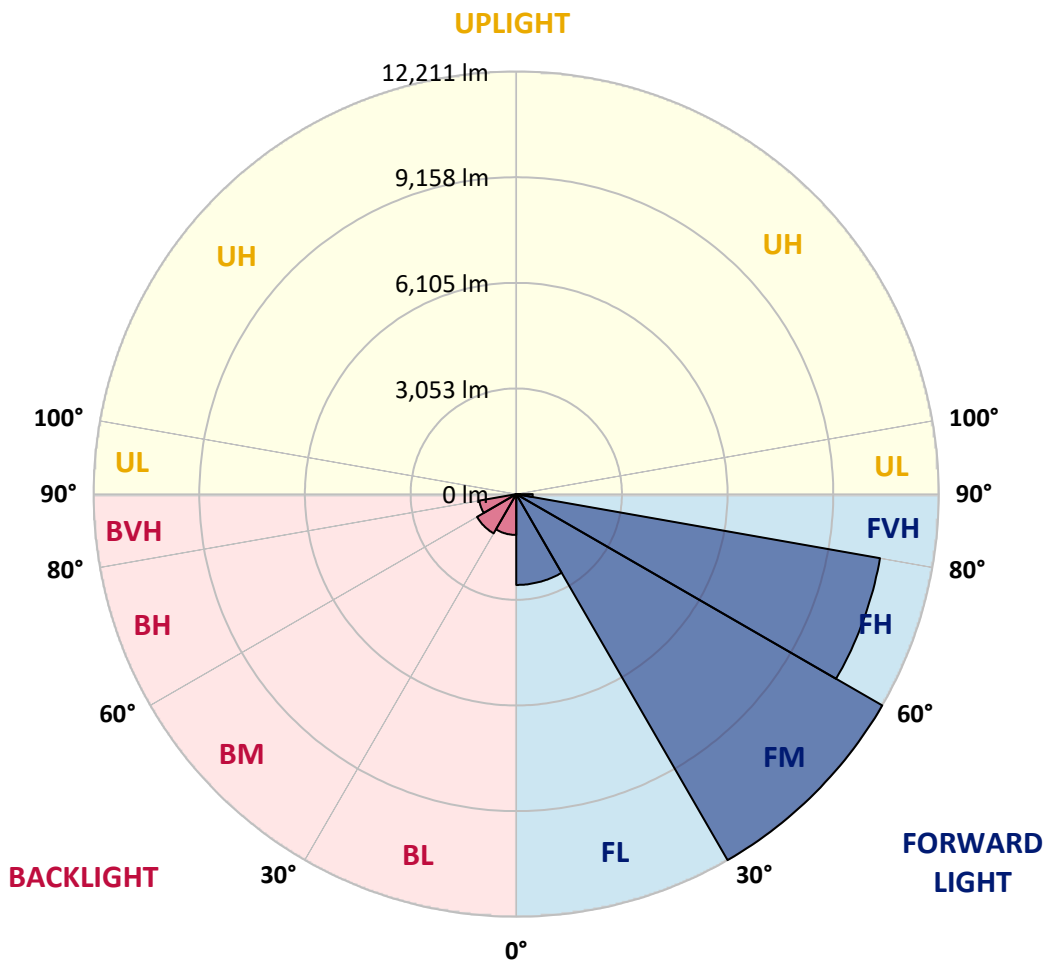
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2624.3	8.9			
FM (30°-60°)	12210.9	41.3			
FH (60°-80°)	10672.3	36.1			G4/12000
FVH (80°-90°)	477.9	1.6			G3/500
BL (0°-30°)	1179.4	4.0	B3/2500		
BM (30°-60°)	1309.0	4.4	B2/2500		
BH (60°-80°)	1085.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	13.6	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°	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0
2.5°	7180.7	7236.6	7252.5	7308.4	7336.3	7456.0	7523.8	7563.7	7543.8	7587.6	7591.6
5°	6670.1	6638.2	6722.0	6781.8	6909.5	7116.9	7328.3	7491.9	7567.7	7639.5	7627.5
7.5°	6123.6	6107.6	6191.4	6327.0	6442.7	6694.0	7033.1	7436.0	7420.1	7595.6	7647.5
10°	5748.6	5764.5	5792.5	5928.1	6099.6	6354.9	6777.8	7152.8	7236.6	7607.6	7711.3
12.5°	5405.5	5433.4	5485.3	5624.9	5824.4	6087.7	6498.6	6937.4	7065.0	7539.8	7747.2
15°	5293.8	5230.0	5333.7	5437.4	5644.9	5880.2	6227.3	6773.8	6829.7	7460.0	7807.1
17.5°	5202.0	5162.1	5210.0	5293.8	5513.2	5704.7	6031.8	6598.3	6702.0	7428.1	7799.1
20°	5230.0	5194.1	5214.0	5277.8	5377.6	5557.1	5860.3	6430.7	6542.4	7280.5	7787.1
22.5°	5309.8	5337.7	5301.8	5317.7	5349.6	5441.4	5768.5	6311.1	6406.8	7252.5	7854.9
25°	5668.8	5620.9	5573.0	5553.1	5365.6	5405.5	5740.6	6303.1	6370.9	7152.8	7799.1
27.5°	6043.8	6003.9	5983.9	5868.3	5612.9	5493.3	5744.6	6191.4	6283.1	7112.9	7731.3
30°	6498.6	6550.4	6470.6	6331.0	5976.0	5680.8	5788.5	6135.5	6263.2	6961.3	7687.4
32.5°	6977.3	7005.2	7045.1	6941.4	6482.6	5964.0	5920.1	6187.4	6195.4	6961.3	7587.6
35°	7519.8	7479.9	7583.7	7591.6	7188.7	6466.6	6171.4	6223.3	6307.1	6929.4	7551.7
37.5°	7986.6	8054.4	8174.1	8365.6	7950.7	7176.7	6562.4	6390.9	6426.8	7077.0	7579.7
40°	8497.2	8565.0	8836.3	9027.8	8792.4	7974.6	7156.8	6781.8	6809.7	7296.4	7723.3
42.5°	9059.7	9191.3	9514.5	9849.6	9785.7	8987.9	7922.7	7356.3	7344.3	7843.0	8018.5
45°	9821.6	9997.2	10348.2	10735.2	10791.0	10148.8	8944.0	8214.0	8253.9	8557.0	8628.8
47.5°	10882.8	10874.8	11217.9	11648.7	11971.9	11353.5	10164.7	9366.9	9362.9	9686.0	9534.4
50°	11908.0	11912.0	12003.8	12502.5	13340.2	13025.1	11676.7	10898.8	10854.9	11014.4	10771.1
52.5°	12382.8	12326.9	12259.1	12861.5	14393.4	15131.4	13591.5	12634.1	12598.2	12502.5	12438.6
55°	11884.1	11904.1	11900.1	12526.4	14947.9	17353.4	16048.9	14545.0	14485.1	14185.9	14273.7
57.5°	10284.4	10220.6	10360.2	11337.6	14313.6	18869.4	19563.5	16954.5	16798.9	15805.6	15606.1
60°	7655.5	7675.4	7791.1	8944.0	12737.8	19188.5	22926.5	19782.9	19112.7	16946.5	16671.3
62.5°	5345.7	5305.8	5349.6	5995.9	9107.6	17911.9	25200.4	23221.7	22575.4	18243.1	18083.5
65°	3825.7	3773.9	3949.4	4344.3	5469.3	13695.3	25523.5	27801.4	27223.0	20313.5	19930.5
67.5°	2752.6	2744.6	2948.1	3666.2	3885.6	7886.8	23129.9	31950.3	31599.2	22770.9	21055.5
69°	2277.9	2281.9	2477.4	3283.2	3710.0	5385.5	19902.6	32664.4	32600.5	24039.5	20844.1
70°	1986.7	2002.6	2230.0	3055.8	3638.2	4428.1	17158.0	31962.2	31898.4	24286.8	20145.9
72.5°	1224.7	1236.7	1535.9	2449.4	3458.7	3614.3	10260.5	26149.8	26369.2	23153.9	17357.4
75°	586.4	590.4	805.8	1771.2	3335.1	3426.8	5497.3	19296.2	19759.0	18693.8	13563.6
77.5°	311.2	311.2	387.0	941.5	2700.8	3223.4	3263.2	13611.5	13994.5	11820.3	7711.3
80°	155.6	159.6	235.4	490.7	1675.5	3159.5	2549.2	8118.2	8325.7	4823.1	2401.6
82.5°	59.8	63.8	111.7	295.2	869.7	2668.8	2238.0	3993.3	3941.4	1129.0	586.4
85°	8.0	8.0	39.9	175.5	371.0	1176.8	1847.0	1667.5	1611.7	247.3	283.2
87.5°	0.0	0.0	8.0	51.9	111.7	343.1	714.1	458.8	510.6	67.8	139.6
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°	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0	7456.0
2.5°	7571.7	7487.9	7360.3	7236.6	7104.9	6945.4	6769.8	6706.0	6594.3	6586.3	6650.2
5°	7563.7	7428.1	7204.7	6941.4	6566.4	6283.1	5976.0	5752.6	5581.0	5469.3	5497.3
7.5°	7603.6	7440.0	7053.1	6486.6	6003.9	5441.4	4966.7	4639.6	4340.4	4192.8	4176.8
10°	7539.8	7320.4	6753.9	5960.0	5249.9	4464.0	3769.9	3331.1	2884.3	2720.7	2728.7
12.5°	7575.7	7268.5	6430.7	5417.5	4440.1	3418.8	2589.1	1990.7	1571.8	1436.1	1420.2
15°	7599.6	7156.8	6119.6	4767.2	3542.5	2329.7	1500.0	1129.0	997.3	973.4	969.4
17.5°	7507.9	7021.2	5680.8	4124.9	2625.0	1416.2	997.3	921.5	897.6	881.6	873.7
20°	7503.9	6941.4	5301.8	3466.7	1751.3	965.4	861.7	833.8	797.9	785.9	785.9
22.5°	7436.0	6773.8	4847.0	2744.6	1117.0	829.8	773.9	730.0	690.1	674.2	670.2
25°	7416.1	6578.3	4420.1	2062.5	849.7	742.0	686.2	622.3	574.5	550.5	538.6
27.5°	7360.3	6410.8	3989.3	1452.1	742.0	662.2	590.4	522.6	466.7	430.8	426.9
30°	7160.8	6235.3	3510.6	1005.3	674.2	586.4	506.6	426.9	371.0	347.1	339.1
32.5°	7077.0	6071.7	2988.0	773.9	614.4	518.6	426.9	355.0	311.2	287.2	283.2
35°	6977.3	5832.4	2481.3	674.2	558.5	450.8	359.0	299.2	263.3	243.3	243.3
37.5°	6989.2	5640.9	2006.6	610.4	498.7	387.0	307.2	255.3	223.4	203.5	203.5
40°	6953.3	5489.3	1559.8	554.5	442.8	331.1	259.3	215.4	187.5	167.6	163.6
42.5°	7116.9	5449.4	1176.8	506.6	387.0	283.2	223.4	183.5	155.6	131.6	131.6
45°	7392.2	5513.2	917.5	462.8	331.1	243.3	191.5	151.6	123.7	107.7	103.7
47.5°	8126.2	5764.5	718.1	426.9	283.2	211.4	159.6	123.7	99.7	83.8	79.8
50°	9191.3	6327.0	610.4	375.0	239.4	179.5	131.6	95.7	79.8	63.8	59.8
52.5°	10707.3	7272.5	554.5	331.1	199.5	147.6	103.7	75.8	59.8	47.9	43.9
55°	12358.8	8453.3	502.7	279.3	167.6	119.7	83.8	59.8	43.9	31.9	27.9
57.5°	13647.4	9474.6	458.8	231.4	135.6	95.7	63.8	43.9	31.9	19.9	16.0
60°	15055.6	10192.7	402.9	183.5	111.7	71.8	47.9	31.9	23.9	12.0	12.0
62.5°	16507.7	11034.4	331.1	143.6	87.8	55.9	35.9	23.9	16.0	4.0	4.0
65°	18526.3	11692.6	255.3	111.7	67.8	39.9	27.9	19.9	8.0	0.0	0.0
67.5°	19096.8	11369.5	187.5	87.8	47.9	27.9	19.9	12.0	4.0	0.0	0.0
69°	18526.3	10240.5	163.6	75.8	39.9	23.9	16.0	8.0	4.0	0.0	0.0
70°	17485.1	9362.9	143.6	63.8	35.9	23.9	12.0	8.0	4.0	0.0	0.0
72.5°	14624.8	7180.7	111.7	47.9	27.9	19.9	12.0	8.0	0.0	0.0	0.0
75°	10727.2	4436.1	83.8	35.9	23.9	16.0	12.0	8.0	0.0	0.0	0.0
77.5°	5748.6	1619.7	59.8	23.9	16.0	12.0	12.0	8.0	0.0	0.0	0.0
80°	1575.8	478.7	43.9	16.0	12.0	8.0	8.0	4.0	0.0	0.0	0.0
82.5°	430.8	123.7	27.9	16.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0
85°	231.4	47.9	16.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	119.7	16.0	12.0	8.0	8.0	4.0	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)