

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: P484740

Luminaire Tested: **IFLD-L-SA8C-730-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484740
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

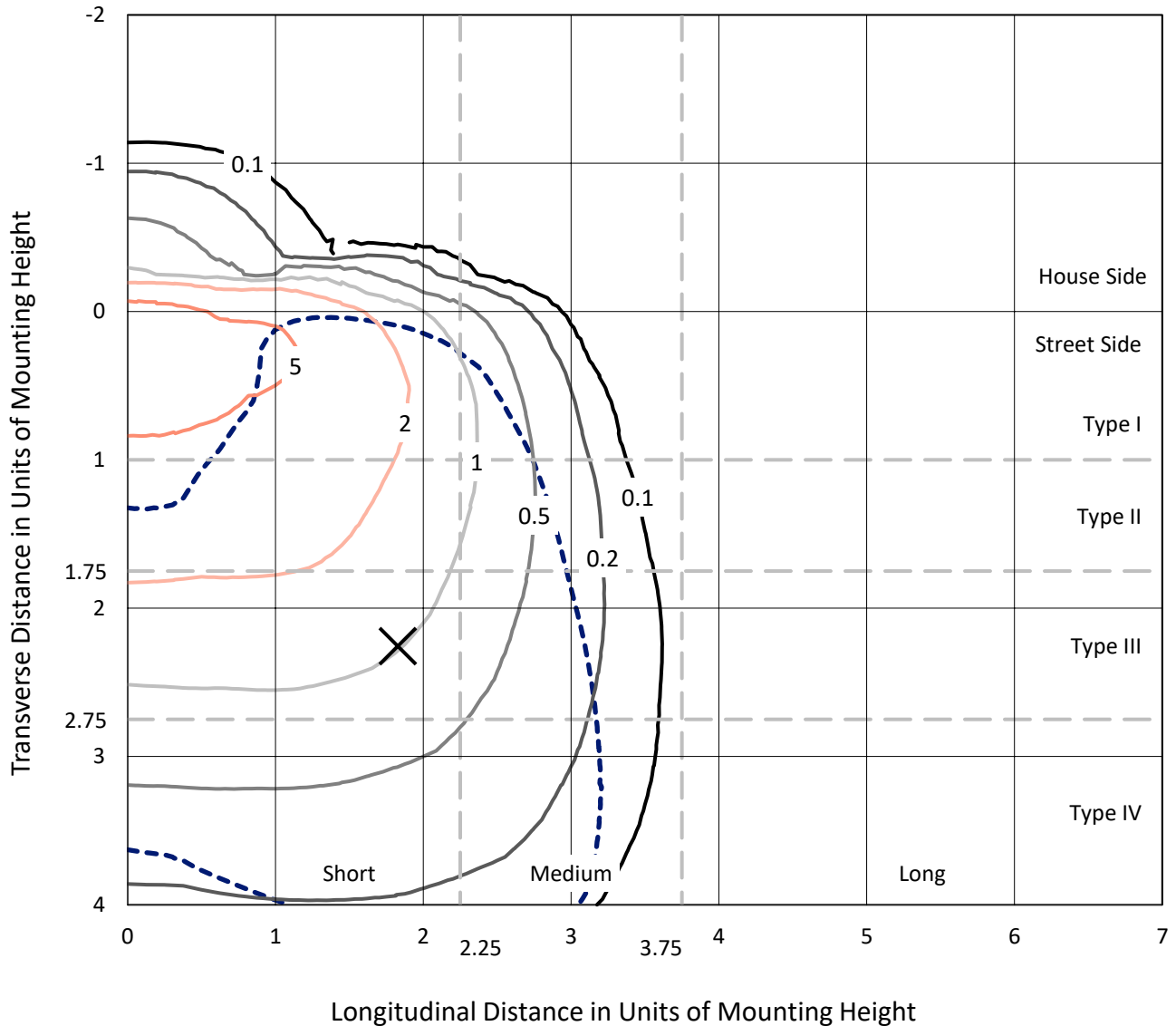
Lumens per Lamp: N/A
Luminaire Lumens: 38112.6 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 420.3
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

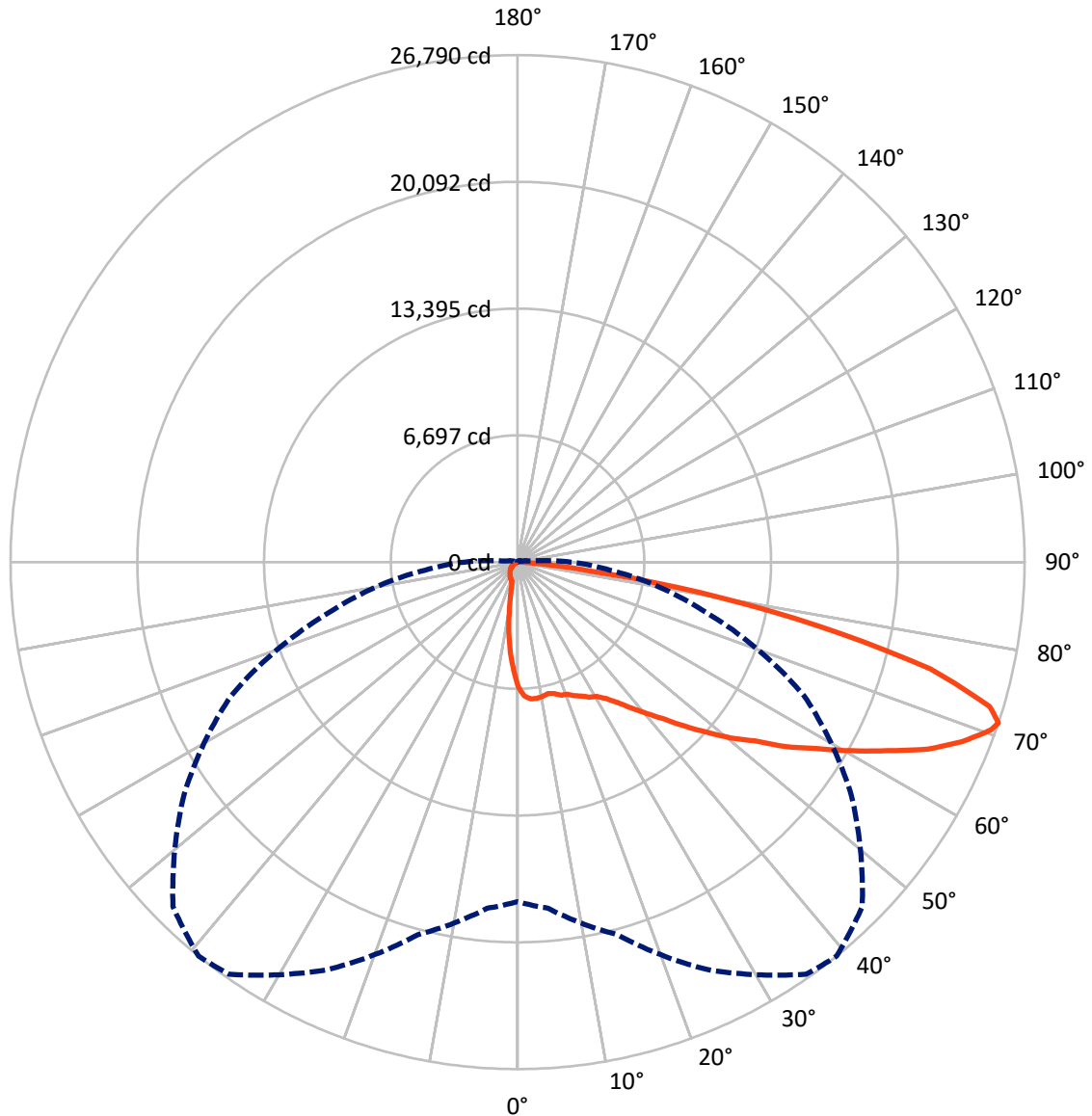
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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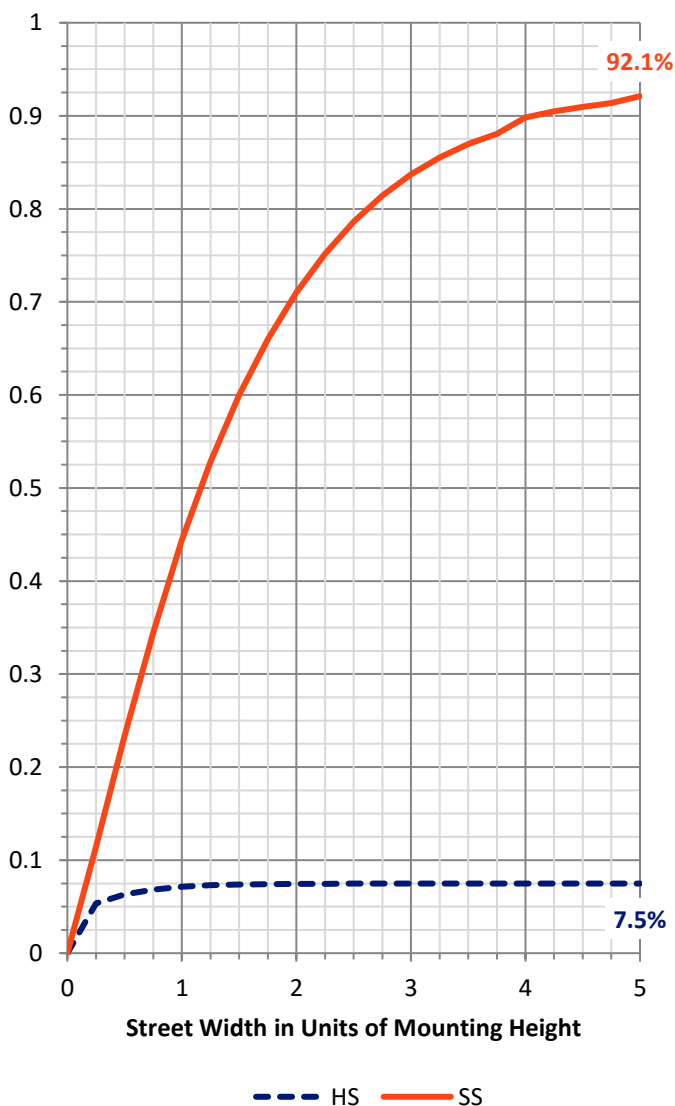
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2869.3	0.0	2869.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	35243.3	0.0	35243.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	38112.6	0.0	38112.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.6	1.5
10°-20°	1365.1	3.6
20°-30°	2191.5	5.7
30°-40°	3354.6	8.8
40°-50°	5384.8	14.1
50°-60°	7909.4	20.8
60°-70°	9961.6	26.1
70°-80°	6648.1	17.4
80°-90°	743.0	1.9
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°	38112.6	100.0
0°-180°	38112.6	100.0

Coefficient of Utilization



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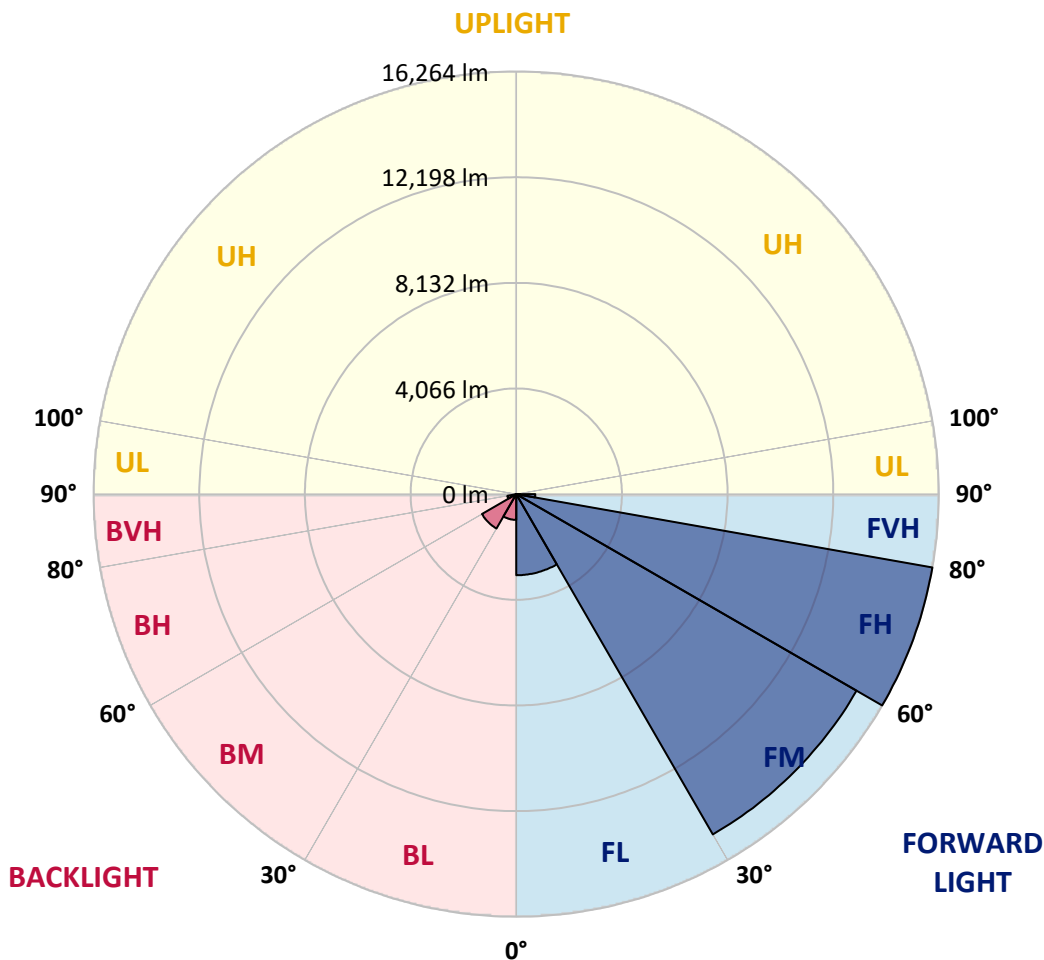
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3120.6	8.2			
FM	(30°-60°)	15123.6	39.7			
FH	(60°-80°)	16264.3	42.7			G5
FVH	(80°-90°)	734.8	1.9			G4/750
BL	(0°-30°)	990.6	2.6	B2/1000		
BM	(30°-60°)	1525.1	4.0	B2/2500		
BH	(60°-80°)	345.4	0.9	B1/500		G1/500
BVH	(80°-90°)	8.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7
2.5°	7148.6	7218.6	7148.6	7118.7	7088.7	7093.7	7013.7	7028.7	6933.7	6808.7	6708.7
5°	7373.6	7468.6	7393.6	7358.6	7353.6	7258.6	7218.6	7123.7	7008.7	6813.7	6693.7
7.5°	7353.6	7333.6	7368.6	7338.6	7273.6	7273.6	7228.6	7093.7	6978.7	6758.7	6553.8
10°	7203.6	7263.6	7233.6	7198.6	7213.6	7218.6	7133.6	7038.7	7003.7	6783.7	6448.8
12.5°	7188.6	7088.7	7198.6	7203.6	7138.6	7133.6	7123.7	7098.7	6988.7	6788.7	6473.8
15°	7138.6	7098.7	7208.6	7213.6	7228.6	7213.6	7228.6	7208.6	7098.7	6983.7	6583.8
17.5°	7178.6	7133.6	7288.6	7363.6	7328.6	7398.6	7373.6	7283.6	7188.6	7053.7	6688.7
20°	7188.6	7253.6	7423.6	7453.6	7563.6	7448.6	7443.6	7348.6	7288.6	7143.6	6753.7
22.5°	7373.6	7403.6	7613.6	7678.5	7683.5	7668.5	7543.6	7433.6	7408.6	7228.6	6768.7
25°	7653.6	7758.5	7853.5	7893.5	7908.5	7838.5	7708.5	7568.6	7508.6	7393.6	6923.7
27.5°	8148.5	8083.5	8168.5	8228.4	8058.5	8083.5	7918.5	7798.5	7713.5	7613.6	7103.7
30°	8588.4	8528.4	8533.4	8523.4	8378.4	8243.4	8198.4	7988.5	7883.5	7923.5	7383.6
32.5°	8983.3	8853.3	8963.3	8913.3	8643.4	8603.4	8568.4	8303.4	8323.4	8508.4	7803.5
35°	9348.2	9303.2	9393.2	9303.2	9123.3	9113.3	9078.3	8848.3	8958.3	9223.3	8523.4
37.5°	9683.2	9698.2	9808.1	9763.2	9778.1	9788.1	9768.1	9523.2	9838.1	10433.0	9363.2
40°	9993.1	9973.1	10243.1	10383.0	10413.0	10523.0	10523.0	10463.0	10947.9	11617.8	10528.0
42.5°	10323.0	10373.0	10723.0	10957.9	11242.9	11337.9	11467.8	11497.8	12247.7	13012.5	11717.8
45°	10862.9	10778.0	11222.9	11777.8	12027.7	12362.7	12562.6	12732.6	13637.4	14687.2	12907.6
47.5°	11547.8	11377.8	11767.8	12572.6	13152.5	13427.5	13787.4	14012.3	14897.2	15982.0	14032.3
50°	12307.7	12132.7	12322.7	13432.5	14107.3	14607.2	15067.1	15352.1	16421.9	17431.7	14852.2
52.5°	13167.5	13007.5	13037.5	14327.3	15322.1	15687.0	16291.9	16716.8	17781.6	18306.5	15142.1
55°	14082.3	14042.3	13947.4	15202.1	16386.9	17206.7	17571.7	18081.6	19176.4	18781.4	15457.1
57.5°	15002.2	14877.2	15012.2	16361.9	18096.6	18586.5	19091.4	19396.3	19951.2	19196.4	15337.1
60°	15867.0	15877.0	16067.0	17621.7	19551.3	20246.2	20701.1	20516.1	20746.1	19376.3	15062.1
62.5°	16596.9	16576.9	17056.8	19036.4	21475.9	21945.8	22285.8	21460.9	21116.0	19551.3	14582.2
65°	17251.7	17476.7	18231.5	20721.1	23285.6	23825.5	23620.5	22355.8	21475.9	19036.4	13232.5
67.5°	17746.6	18081.6	19391.3	22305.8	24945.3	25325.2	25040.3	23035.6	21051.0	17016.8	10778.0
70°	18036.6	18376.5	20221.2	23625.5	26270.0	26545.0	25875.1	22510.7	18571.5	12322.7	6723.7
71°	17946.6	18361.5	20381.1	23765.5	26585.0	26789.9	25750.1	21540.9	16701.8	10318.0	4904.1
72.5°	17131.8	17521.7	19716.3	23665.5	26205.0	26080.1	24775.3	19211.4	13147.5	6578.8	2534.5
75°	12587.6	13007.5	16921.8	20471.1	23390.6	22530.7	20051.2	13482.4	6858.7	2014.6	739.9
77.5°	6268.8	6338.8	10503.0	14862.2	17156.7	16301.9	13437.5	7518.6	2564.5	594.9	369.9
80°	2889.5	2909.4	3939.3	7698.5	10373.0	9763.2	7528.6	3709.3	1159.8	314.9	289.9
82.5°	1969.6	1999.6	2374.6	3189.4	4504.1	3799.3	3049.4	2374.6	664.9	190.0	284.9
85°	359.9	329.9	1329.7	1689.7	1739.7	1179.8	1054.8	2054.6	250.0	110.0	250.0
87.5°	0.0	5.0	185.0	689.9	619.9	274.9	359.9	499.9	25.0	35.0	45.0
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°	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7	6633.7
2.5°	6623.7	6568.8	6383.8	6178.8	5993.9	5848.9	5663.9	5578.9	5444.0	5369.0	5364.0
5°	6528.8	6378.8	6058.9	5713.9	5329.0	5009.1	4654.1	4454.2	4224.2	4154.2	4139.2
7.5°	6368.8	6153.8	5683.9	5199.0	4609.1	4044.2	3609.3	3144.4	2859.5	2739.5	2694.5
10°	6268.8	6008.9	5369.0	4644.1	3819.3	3024.4	2414.5	1919.6	1659.7	1534.7	1504.7
12.5°	6268.8	5988.9	5114.0	4114.2	3019.4	2069.6	1494.7	1209.8	1124.8	1094.8	1094.8
15°	6253.8	5948.9	4869.1	3569.3	2234.6	1389.7	1114.8	1054.8	1044.8	1039.8	1034.8
17.5°	6328.8	5878.9	4619.1	2984.4	1579.7	1094.8	1024.8	1014.8	1004.8	1004.8	994.8
20°	6383.8	5838.9	4319.2	2364.6	1179.8	1014.8	984.8	969.8	964.8	959.8	969.8
22.5°	6338.8	5778.9	3949.3	1769.7	1029.8	964.8	944.8	929.8	919.8	919.8	924.8
25°	6423.8	5723.9	3579.3	1334.7	964.8	919.8	899.8	889.8	884.8	879.8	869.8
27.5°	6538.8	5748.9	3139.4	1074.8	909.8	874.8	854.8	844.8	839.8	829.8	839.8
30°	6678.7	5743.9	2654.5	939.8	859.8	824.8	804.8	799.8	789.9	784.9	789.9
32.5°	6918.7	5873.9	2154.6	869.8	804.8	774.9	754.9	749.9	744.9	739.9	734.9
35°	7433.6	6033.9	1684.7	814.8	754.9	719.9	704.9	694.9	689.9	684.9	679.9
37.5°	8068.5	6388.8	1284.8	764.9	704.9	669.9	654.9	649.9	629.9	624.9	619.9
40°	8863.3	6768.7	989.8	709.9	659.9	624.9	609.9	594.9	569.9	559.9	549.9
42.5°	9853.1	7138.6	814.8	659.9	609.9	584.9	559.9	534.9	514.9	494.9	484.9
45°	10842.9	7568.6	714.9	614.9	569.9	539.9	519.9	484.9	449.9	419.9	414.9
47.5°	11667.8	7723.5	654.9	564.9	529.9	504.9	474.9	429.9	379.9	349.9	344.9
50°	12282.7	7633.6	594.9	514.9	484.9	459.9	419.9	364.9	314.9	284.9	274.9
52.5°	12402.7	7238.6	539.9	474.9	439.9	409.9	364.9	304.9	250.0	220.0	215.0
55°	12317.7	6583.8	494.9	439.9	399.9	354.9	304.9	245.0	195.0	165.0	160.0
57.5°	12142.7	5808.9	444.9	394.9	349.9	304.9	250.0	200.0	145.0	115.0	115.0
60°	11547.8	4754.1	394.9	344.9	299.9	260.0	205.0	145.0	100.0	75.0	70.0
62.5°	10718.0	3654.3	344.9	294.9	260.0	215.0	160.0	105.0	60.0	40.0	40.0
65°	9203.3	2559.5	289.9	245.0	215.0	175.0	120.0	65.0	35.0	15.0	15.0
67.5°	6993.7	1584.7	240.0	205.0	185.0	140.0	85.0	40.0	15.0	5.0	0.0
70°	4014.2	824.8	190.0	165.0	145.0	105.0	60.0	20.0	10.0	0.0	0.0
71°	2804.5	609.9	170.0	145.0	130.0	95.0	50.0	15.0	5.0	0.0	0.0
72.5°	1404.7	404.9	145.0	120.0	105.0	75.0	40.0	15.0	5.0	0.0	0.0
75°	499.9	260.0	100.0	80.0	75.0	55.0	25.0	10.0	5.0	0.0	0.0
77.5°	344.9	210.0	70.0	50.0	50.0	35.0	15.0	5.0	5.0	0.0	0.0
80°	314.9	115.0	45.0	30.0	25.0	20.0	10.0	5.0	0.0	0.0	0.0
82.5°	314.9	85.0	25.0	20.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0
85°	220.0	45.0	15.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.0	15.0	10.0	5.0	5.0	0.0	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)