

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: P484662

Luminaire Tested: **IFLD-L-SA8C-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484662
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

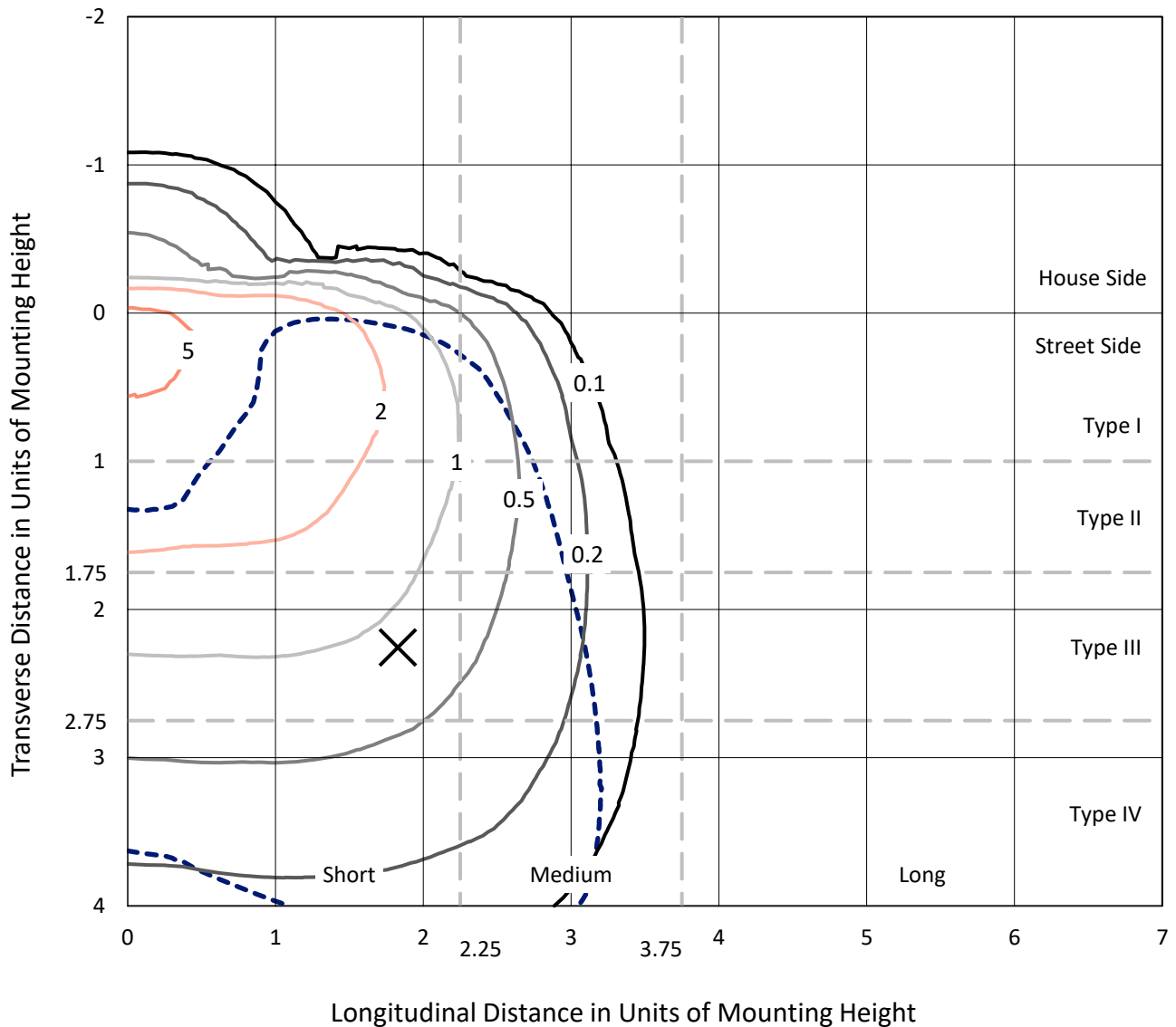
Lumens per Lamp: N/A
Luminaire Lumens: 30829.9 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

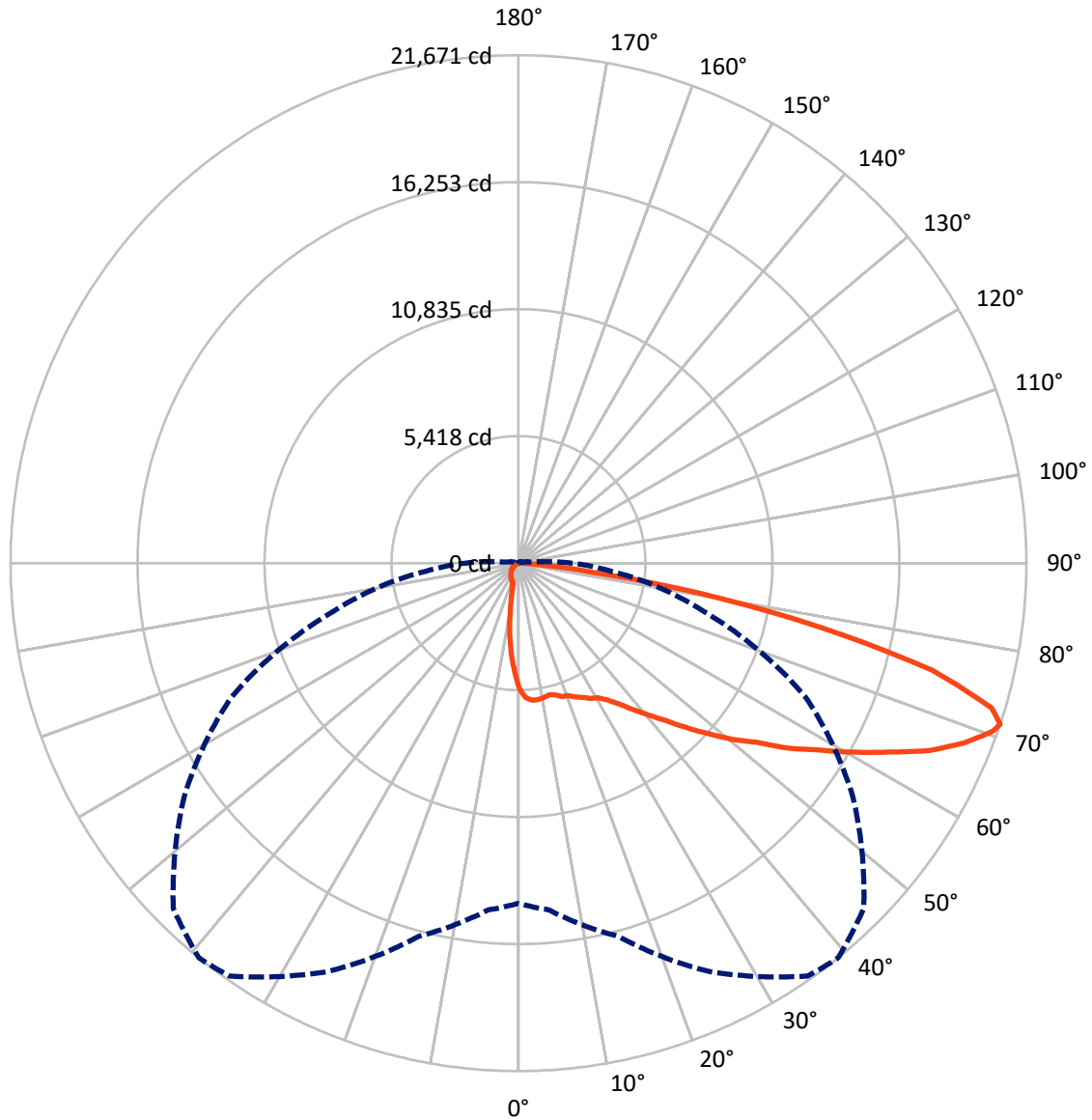
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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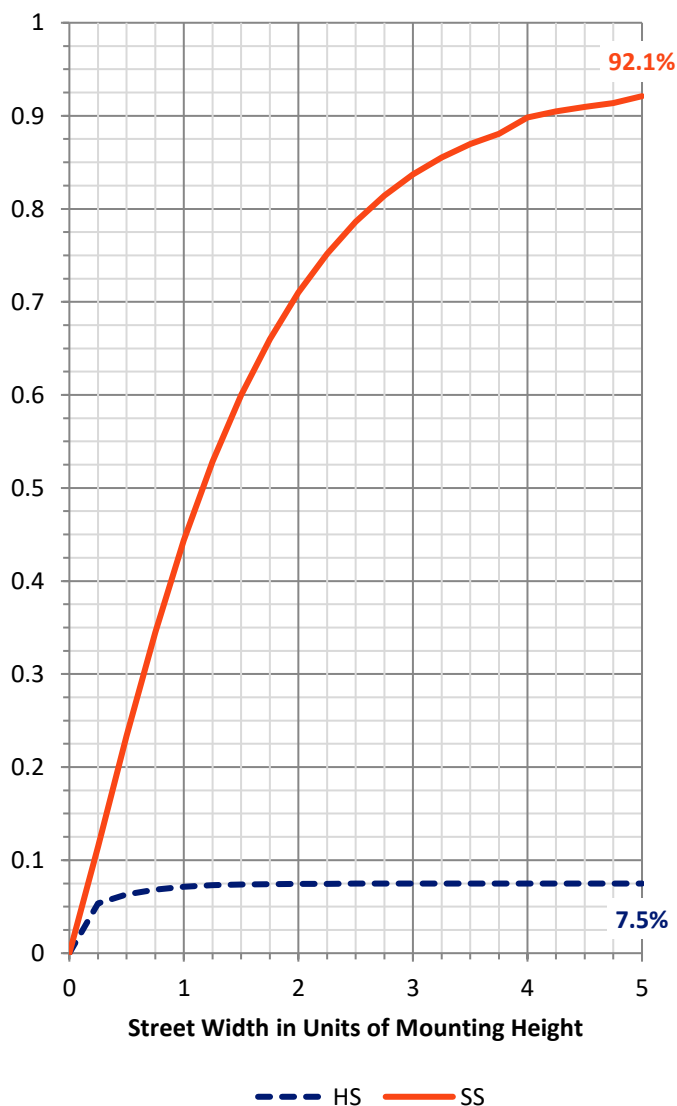
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2321.0	0.0	2321.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	28508.9	0.0	28508.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	30829.9	0.0	30829.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.7	1.5
10°-20°	1104.3	3.6
20°-30°	1772.7	5.8
30°-40°	2713.6	8.8
40°-50°	4355.8	14.1
50°-60°	6398.0	20.8
60°-70°	8058.1	26.1
70°-80°	5377.7	17.4
80°-90°	601.0	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°	30829.9	100.0
0°-180°	30829.9	100.0

Coefficient of Utilization



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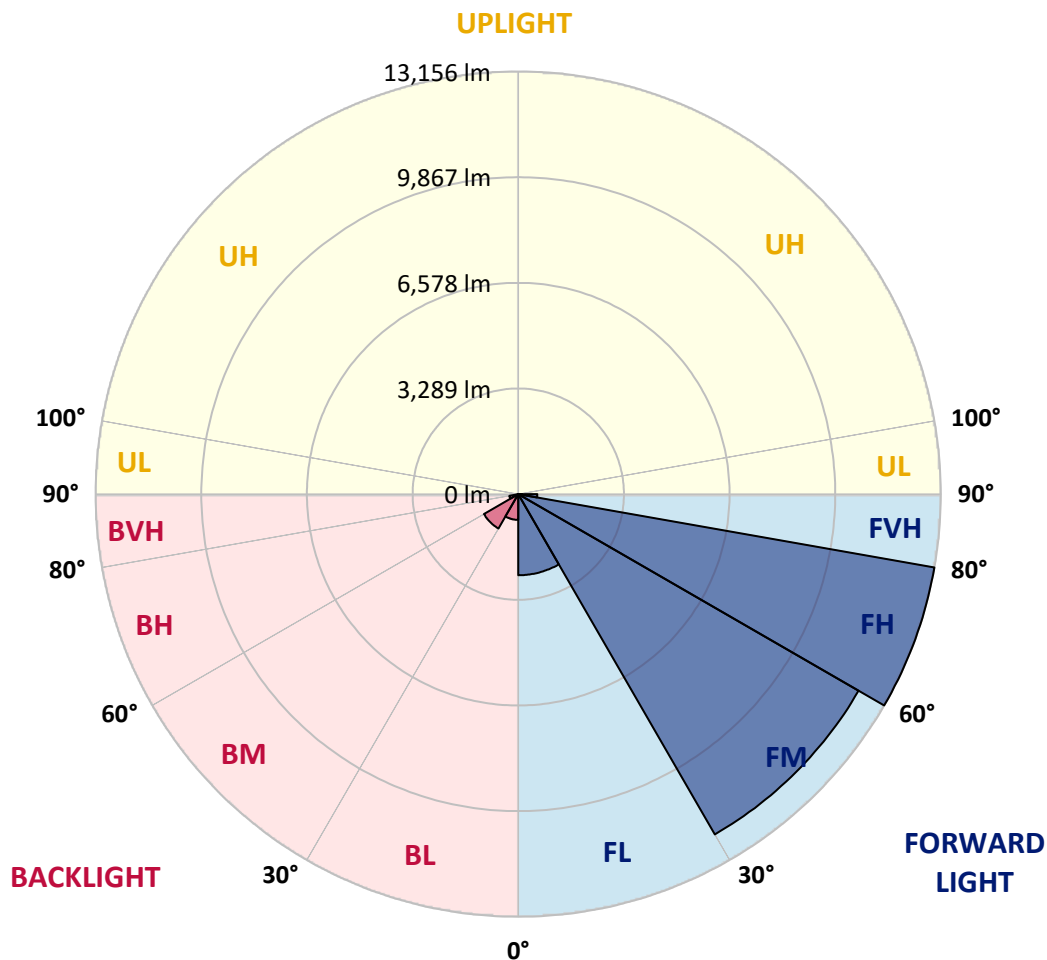
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2524.3	8.2			
FM (30°-60°)	12233.8	39.7			
FH (60°-80°)	13156.5	42.7			G5
FVH (80°-90°)	594.4	1.9			G4/750
BL (0°-30°)	801.3	2.6	B2/1000		
BM (30°-60°)	1233.7	4.0	B2/2500		
BH (60°-80°)	279.3	0.9	B1/500		G1/500
BVH (80°-90°)	6.6	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°	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1
2.5°	5782.7	5839.3	5782.7	5758.4	5734.1	5738.2	5673.5	5685.6	5608.8	5507.7	5426.8
5°	5964.6	6041.5	5980.8	5952.5	5948.5	5871.6	5839.3	5762.4	5669.4	5511.7	5414.7
7.5°	5948.5	5932.3	5960.6	5936.3	5883.8	5883.8	5847.4	5738.2	5645.2	5467.2	5301.4
10°	5827.1	5875.7	5851.4	5823.1	5835.2	5839.3	5770.5	5693.7	5665.4	5487.5	5216.5
12.5°	5815.0	5734.1	5823.1	5827.1	5774.6	5770.5	5762.4	5742.2	5653.3	5491.5	5236.7
15°	5774.6	5742.2	5831.2	5835.2	5847.4	5835.2	5847.4	5831.2	5742.2	5649.2	5325.7
17.5°	5806.9	5770.5	5895.9	5956.5	5928.2	5984.9	5964.6	5891.8	5815.0	5705.8	5410.6
20°	5815.0	5867.6	6005.1	6029.3	6118.3	6025.3	6021.2	5944.4	5895.9	5778.6	5463.2
22.5°	5964.6	5988.9	6158.7	6211.3	6215.4	6203.2	6102.1	6013.2	5992.9	5847.4	5475.3
25°	6191.1	6276.0	6352.8	6385.2	6397.3	6340.7	6235.6	6122.3	6073.8	5980.8	5600.7
27.5°	6591.4	6538.9	6607.6	6656.1	6518.6	6538.9	6405.4	6308.4	6239.6	6158.7	5746.3
30°	6947.3	6898.8	6902.8	6894.7	6777.4	6668.3	6631.9	6462.0	6377.1	6409.5	5972.7
32.5°	7266.7	7161.6	7250.6	7210.1	6991.8	6959.4	6931.1	6716.8	6733.0	6882.6	6312.4
35°	7561.9	7525.5	7598.3	7525.5	7380.0	7371.9	7343.6	7157.6	7246.5	7460.8	6894.7
37.5°	7832.9	7845.0	7934.0	7897.6	7909.7	7917.8	7901.6	7703.5	7958.2	8439.5	7574.1
40°	8083.6	8067.4	8285.8	8399.0	8423.3	8512.2	8512.2	8463.7	8856.0	9397.8	8516.3
42.5°	8350.5	8390.9	8674.0	8864.1	9094.6	9171.4	9276.5	9300.8	9907.4	10526.1	9478.7
45°	8787.2	8718.5	9078.4	9527.2	9729.4	10000.4	10162.1	10299.6	11031.5	11880.7	10441.1
47.5°	9341.2	9203.7	9519.2	10170.2	10639.3	10861.7	11152.9	11334.8	12050.6	12928.1	11351.0
50°	9955.9	9814.4	9968.0	10865.7	11411.7	11816.0	12188.1	12418.6	13283.9	14100.8	12014.2
52.5°	10651.4	10522.0	10546.3	11589.6	12394.3	12689.5	13178.8	13522.5	14383.9	14808.5	12248.7
55°	11391.4	11359.1	11282.3	12297.3	13255.6	13918.8	14214.0	14626.5	15512.1	15192.6	12503.5
57.5°	12135.5	12034.4	12143.6	13235.4	14638.6	15034.9	15443.3	15690.0	16138.9	15528.3	12406.4
60°	12835.1	12843.2	12996.8	14254.5	15815.4	16377.5	16745.5	16595.8	16781.9	15673.8	12184.0
62.5°	13425.5	13409.3	13797.5	15398.9	17372.3	17752.4	18027.3	17360.1	17081.1	15815.4	11795.8
65°	13955.2	14137.2	14747.8	16761.6	18836.1	19272.8	19107.0	18084.0	17372.3	15398.9	10704.0
67.5°	14355.6	14626.5	15686.0	18043.5	20178.7	20486.0	20255.5	18633.9	17028.5	13765.2	8718.5
70°	14590.1	14865.1	16357.3	19111.1	21250.3	21472.7	20930.8	18209.3	15022.8	9968.0	5438.9
71°	14517.3	14853.0	16486.7	19224.3	21505.0	21670.8	20829.7	17424.8	13510.4	8346.4	3967.0
72.5°	13858.2	14173.6	15948.8	19143.4	21197.7	21096.6	20041.2	15540.4	10635.2	5321.7	2050.2
75°	10182.3	10522.0	13688.3	16559.4	18921.0	18225.5	16219.8	10906.2	5548.1	1629.7	598.5
77.5°	5071.0	5127.6	8496.1	12022.3	13878.4	13186.9	10869.8	6081.9	2074.5	481.2	299.2
80°	2337.3	2353.5	3186.5	6227.5	8390.9	7897.6	6090.0	3000.5	938.2	254.8	234.5
82.5°	1593.3	1617.5	1920.8	2580.0	3643.5	3073.3	2466.7	1920.8	537.8	153.7	230.5
85°	291.2	266.9	1075.7	1366.8	1407.2	954.3	853.2	1662.0	202.2	89.0	202.2
87.5°	0.0	4.0	149.6	558.0	501.4	222.4	291.2	404.4	20.2	28.3	36.4
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°	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1	5366.1
2.5°	5358.1	5313.6	5164.0	4998.2	4848.5	4731.3	4581.6	4512.9	4403.7	4343.1	4339.0
5°	5281.2	5159.9	4901.1	4622.1	4310.7	4051.9	3764.8	3603.0	3417.0	3360.4	3348.3
7.5°	5151.8	4977.9	4597.8	4205.6	3728.4	3271.5	2919.6	2543.6	2313.1	2216.0	2179.6
10°	5071.0	4860.7	4343.1	3756.7	3089.5	2446.5	1953.2	1552.8	1342.5	1241.5	1217.2
12.5°	5071.0	4844.5	4136.8	3328.1	2442.5	1674.1	1209.1	978.6	909.9	885.6	885.6
15°	5058.8	4812.1	3938.7	2887.3	1807.6	1124.2	901.8	853.2	845.2	841.1	837.1
17.5°	5119.5	4755.5	3736.5	2414.2	1277.8	885.6	829.0	820.9	812.8	812.8	804.7
20°	5164.0	4723.2	3493.9	1912.7	954.3	820.9	796.6	784.5	780.5	776.4	784.5
22.5°	5127.6	4674.7	3194.6	1431.5	833.0	780.5	764.3	752.2	744.1	744.1	748.1
25°	5196.3	4630.2	2895.4	1079.7	780.5	744.1	727.9	719.8	715.8	711.7	703.6
27.5°	5289.3	4650.4	2539.5	869.4	736.0	707.7	691.5	683.4	679.4	671.3	679.4
30°	5402.5	4646.3	2147.3	760.2	695.5	667.2	651.1	647.0	638.9	634.9	638.9
32.5°	5596.6	4751.5	1742.9	703.6	651.1	626.8	610.6	606.6	602.5	598.5	594.4
35°	6013.2	4880.9	1362.8	659.1	610.6	582.3	570.2	562.1	558.0	554.0	550.0
37.5°	6526.7	5168.0	1039.3	618.7	570.2	541.9	529.7	525.7	509.5	505.5	501.4
40°	7169.7	5475.3	800.7	574.2	533.8	505.5	493.3	481.2	461.0	452.9	444.8
42.5°	7970.4	5774.6	659.1	533.8	493.3	473.1	452.9	432.7	416.5	400.3	392.3
45°	8771.0	6122.3	578.3	497.4	461.0	436.7	420.6	392.3	363.9	339.7	335.6
47.5°	9438.3	6247.7	529.7	457.0	428.6	408.4	384.2	347.8	307.3	283.1	279.0
50°	9935.7	6174.9	481.2	416.5	392.3	372.0	339.7	295.2	254.8	230.5	222.4
52.5°	10032.7	5855.5	436.7	384.2	355.9	331.6	295.2	246.7	202.2	177.9	173.9
55°	9964.0	5325.7	400.3	355.9	323.5	287.1	246.7	198.1	157.7	133.4	129.4
57.5°	9822.4	4698.9	359.9	319.5	283.1	246.7	202.2	161.8	117.3	93.0	93.0
60°	9341.2	3845.7	319.5	279.0	242.6	210.3	165.8	117.3	80.9	60.7	56.6
62.5°	8669.9	2956.0	279.0	238.6	210.3	173.9	129.4	84.9	48.5	32.4	32.4
65°	7444.7	2070.4	234.5	198.1	173.9	141.5	97.1	52.6	28.3	12.1	12.1
67.5°	5657.3	1281.9	194.1	165.8	149.6	113.2	68.7	32.4	12.1	4.0	0.0
70°	3247.2	667.2	153.7	133.4	117.3	84.9	48.5	16.2	8.1	0.0	0.0
71°	2268.6	493.3	137.5	117.3	105.1	76.8	40.4	12.1	4.0	0.0	0.0
72.5°	1136.3	327.5	117.3	97.1	84.9	60.7	32.4	12.1	4.0	0.0	0.0
75°	404.4	210.3	80.9	64.7	60.7	44.5	20.2	8.1	4.0	0.0	0.0
77.5°	279.0	169.8	56.6	40.4	40.4	28.3	12.1	4.0	4.0	0.0	0.0
80°	254.8	93.0	36.4	24.3	20.2	16.2	8.1	4.0	0.0	0.0	0.0
82.5°	254.8	68.7	20.2	16.2	12.1	8.1	4.0	0.0	0.0	0.0	0.0
85°	177.9	36.4	12.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.3	12.1	8.1	4.0	4.0	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)