

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: P484661

Luminaire Tested: **IFLD-L-SA8B-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484661
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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

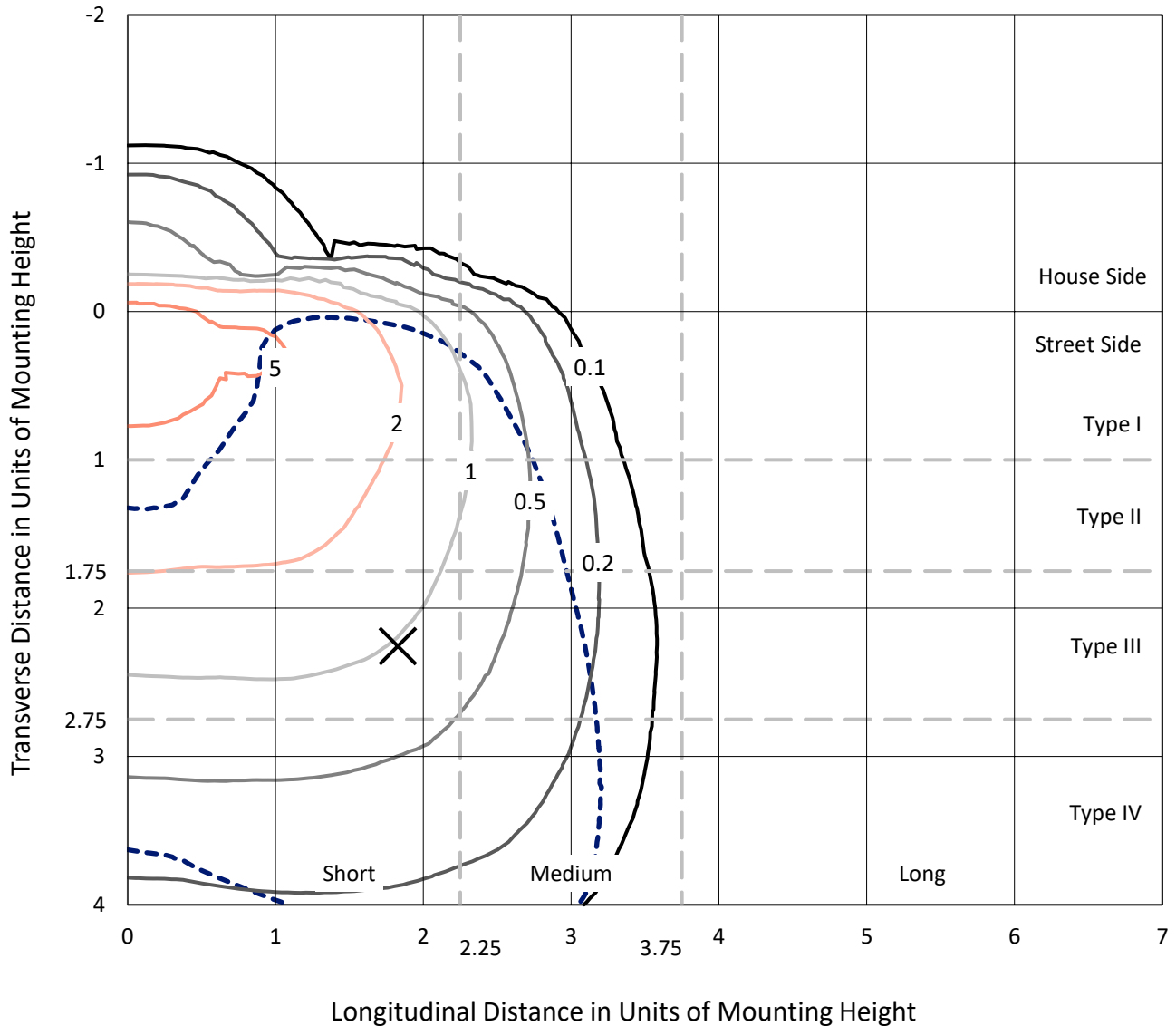
Lumens per Lamp: N/A
Luminaire Lumens: 24765.9 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

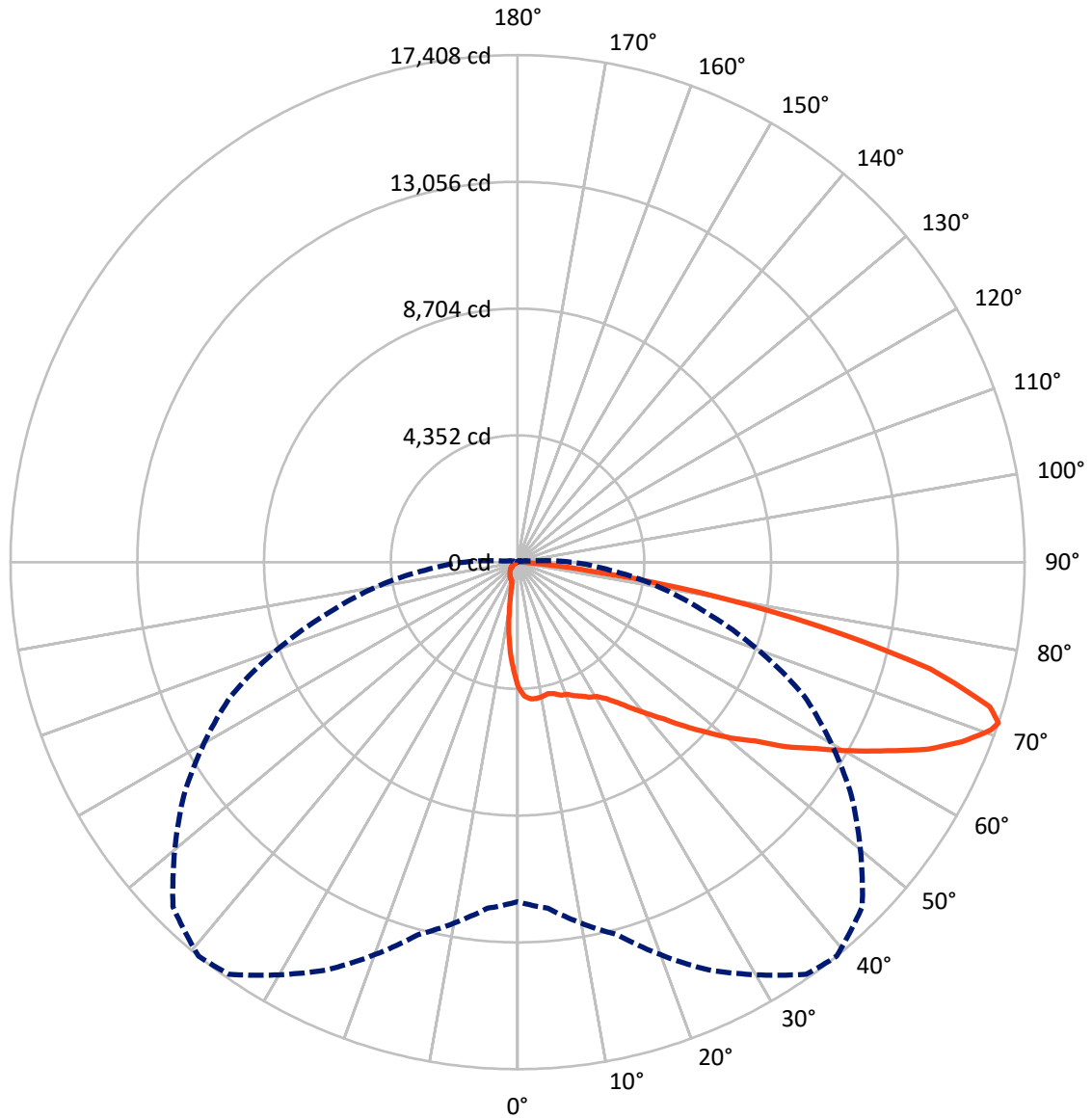
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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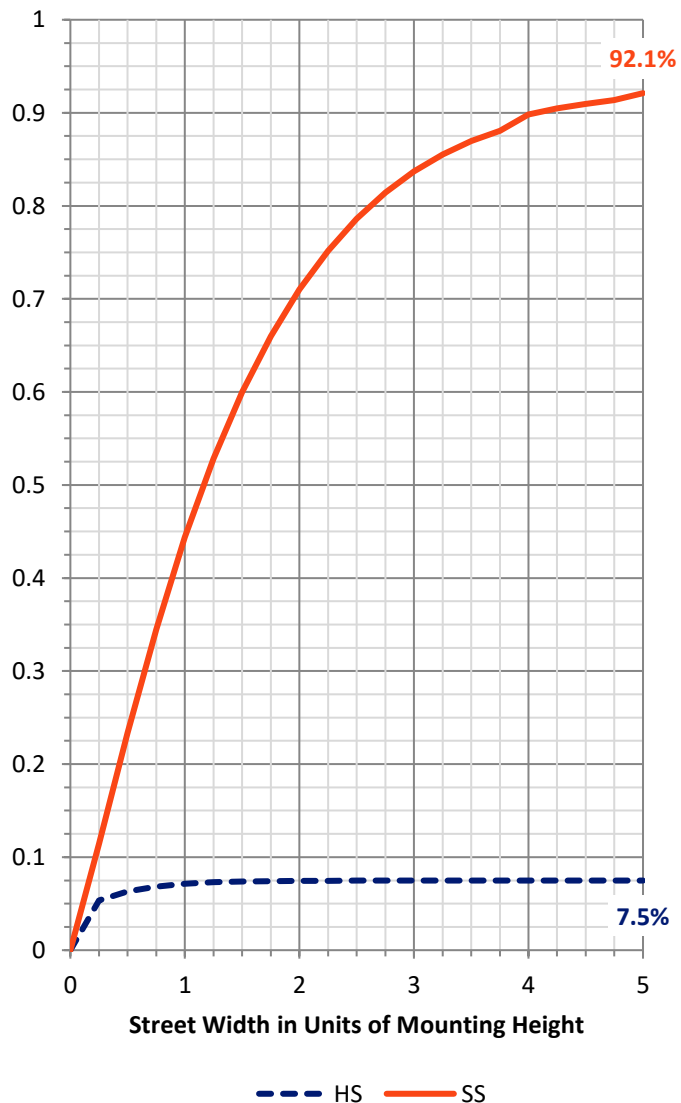
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.5	0.0	1864.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	22901.4	0.0	22901.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	24765.9	0.0	24765.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.5
10°-20°	887.1	3.6
20°-30°	1424.0	5.8
30°-40°	2179.9	8.8
40°-50°	3499.1	14.1
50°-60°	5139.6	20.8
60°-70°	6473.1	26.1
70°-80°	4320.0	17.4
80°-90°	482.8	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°	24765.9	100.0
0°-180°	24765.9	100.0

Coefficient of Utilization



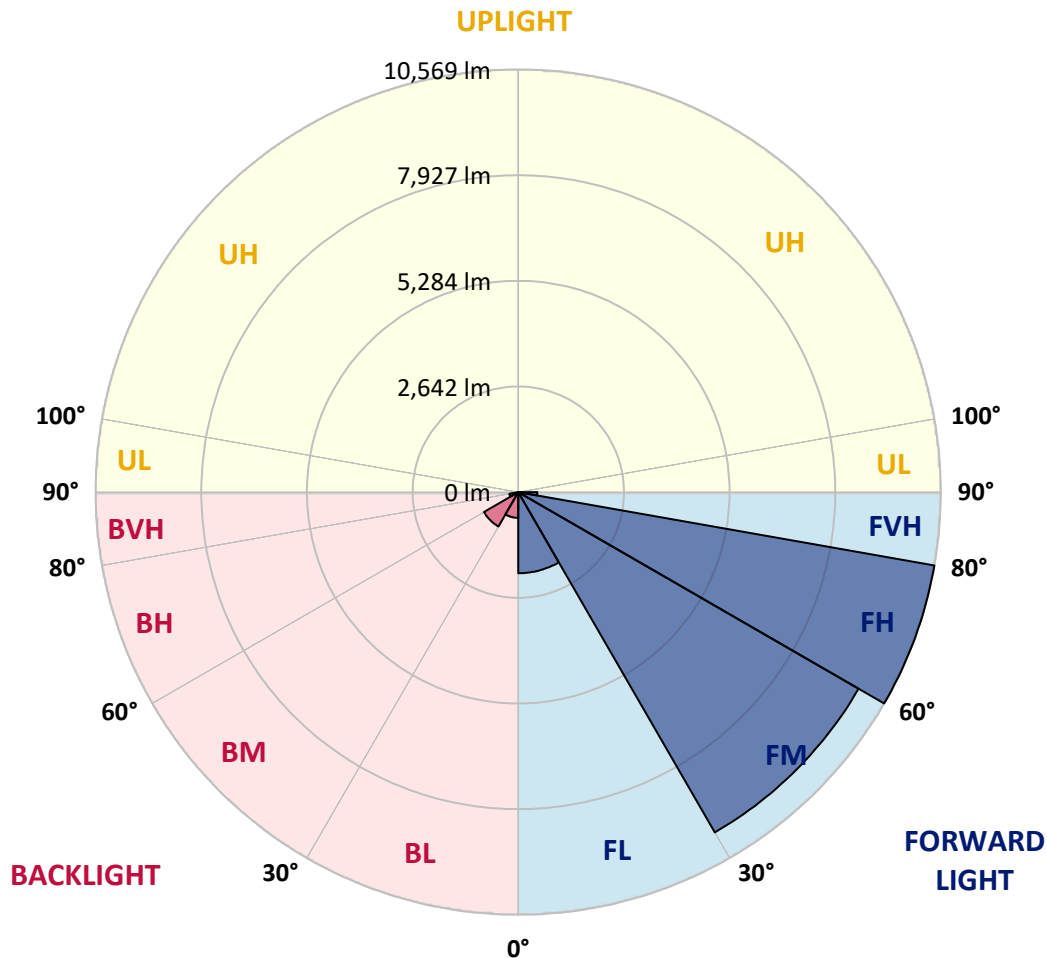
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.8	8.2			
FM (30°-60°)	9827.5	39.7			
FH (60°-80°)	10568.7	42.7			G4/12000
FVH (80°-90°)	477.5	1.9			G3/500
BL (0°-30°)	643.7	2.6	B2/1000		
BM (30°-60°)	991.1	4.0	B1/1000		
BH (60°-80°)	224.4	0.9	B1/500		G1/500
BVH (80°-90°)	5.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7
2.5°	4645.2	4690.7	4645.2	4625.8	4606.3	4609.5	4557.5	4567.3	4505.6	4424.4	4359.4
5°	4791.4	4853.1	4804.4	4781.7	4778.4	4716.7	4690.7	4629.0	4554.3	4427.6	4349.6
7.5°	4778.4	4765.4	4788.2	4768.7	4726.5	4726.5	4697.2	4609.5	4534.8	4391.9	4258.7
10°	4681.0	4720.0	4700.5	4677.7	4687.5	4690.7	4635.5	4573.8	4551.0	4408.1	4190.5
12.5°	4671.2	4606.3	4677.7	4681.0	4638.8	4635.5	4629.0	4612.8	4541.3	4411.4	4206.7
15°	4638.8	4612.8	4684.2	4687.5	4697.2	4687.5	4697.2	4684.2	4612.8	4538.1	4278.2
17.5°	4664.7	4635.5	4736.2	4784.9	4762.2	4807.7	4791.4	4733.0	4671.2	4583.5	4346.4
20°	4671.2	4713.5	4823.9	4843.4	4914.9	4840.2	4836.9	4775.2	4736.2	4642.0	4388.6
22.5°	4791.4	4810.9	4947.4	4989.6	4992.8	4983.1	4901.9	4830.4	4814.2	4697.2	4398.4
25°	4973.3	5041.6	5103.3	5129.3	5139.0	5093.5	5009.1	4918.1	4879.1	4804.4	4499.1
27.5°	5294.9	5252.7	5307.9	5346.9	5236.5	5252.7	5145.5	5067.5	5012.3	4947.4	4616.0
30°	5580.8	5541.8	5545.1	5538.6	5444.4	5356.7	5327.4	5191.0	5122.8	5148.8	4797.9
32.5°	5837.4	5753.0	5824.4	5791.9	5616.5	5590.5	5567.8	5395.6	5408.6	5528.8	5070.8
35°	6074.6	6045.3	6103.8	6045.3	5928.4	5921.9	5899.1	5749.7	5821.2	5993.3	5538.6
37.5°	6292.2	6301.9	6373.4	6344.2	6353.9	6360.4	6347.4	6188.3	6392.9	6779.5	6084.3
40°	6493.6	6480.6	6656.0	6747.0	6766.5	6837.9	6837.9	6799.0	7114.1	7549.3	6841.2
42.5°	6708.0	6740.5	6967.9	7120.5	7305.7	7367.4	7451.9	7471.4	7958.6	8455.7	7614.3
45°	7058.8	7003.6	7292.7	7653.3	7815.7	8033.4	8163.3	8273.7	8861.7	9543.9	8387.4
47.5°	7503.9	7393.4	7646.8	8169.8	8546.6	8725.3	8959.2	9105.3	9680.3	10385.2	9118.3
50°	7997.6	7883.9	8007.4	8728.5	9167.1	9491.9	9790.8	9975.9	10671.1	11327.3	9651.1
52.5°	8556.4	8452.4	8471.9	9310.0	9956.4	10193.6	10586.6	10862.7	11554.6	11895.7	9839.5
55°	9150.8	9124.8	9063.1	9878.5	10648.3	11181.1	11418.2	11749.6	12461.0	12204.3	10044.1
57.5°	9748.5	9667.3	9755.0	10632.1	11759.3	12077.6	12405.7	12603.9	12964.5	12474.0	9966.2
60°	10310.5	10317.0	10440.4	11450.7	12704.6	13156.1	13451.7	13331.5	13481.0	12590.9	9787.5
62.5°	10784.8	10771.8	11083.6	12370.0	13955.2	14260.6	14481.5	13945.5	13721.3	12704.6	9475.7
65°	11210.3	11356.5	11847.0	13464.7	15131.2	15482.0	15348.8	14527.0	13955.2	12370.0	8598.6
67.5°	11531.9	11749.6	12600.6	14494.5	16209.6	16456.5	16271.4	14968.7	13679.1	11057.6	7003.6
70°	11720.3	11941.2	13139.9	15352.1	17070.5	17249.1	16813.9	14627.7	12067.9	8007.4	4369.1
71°	11661.8	11931.5	13243.8	15443.0	17275.1	17408.3	16732.6	13997.5	10853.0	6704.8	3186.7
72.5°	11132.4	11385.7	12811.8	15378.0	17028.2	16947.0	16099.2	12483.7	8543.4	4274.9	1647.0
75°	8179.5	8452.4	10995.9	13302.3	15199.4	14640.7	13029.4	8761.0	4456.8	1309.1	480.8
77.5°	4073.5	4119.0	6824.9	9657.6	11148.6	10593.1	8731.8	4885.6	1666.4	386.6	240.4
80°	1877.6	1890.6	2559.8	5002.6	6740.5	6344.2	4892.1	2410.3	753.6	204.7	188.4
82.5°	1279.9	1299.4	1543.0	2072.5	2926.8	2468.8	1981.5	1543.0	432.0	123.4	185.2
85°	233.9	214.4	864.1	1098.0	1130.5	766.6	685.4	1335.1	162.4	71.5	162.4
87.5°	0.0	3.2	120.2	448.3	402.8	178.7	233.9	324.8	16.2	22.7	29.2
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°	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7	4310.7
2.5°	4304.2	4268.4	4148.2	4015.1	3894.9	3800.7	3680.5	3625.2	3537.5	3488.8	3485.6
5°	4242.4	4145.0	3937.1	3713.0	3462.8	3254.9	3024.3	2894.3	2744.9	2699.4	2689.7
7.5°	4138.5	3998.8	3693.5	3378.4	2995.0	2628.0	2345.4	2043.3	1858.1	1780.1	1750.9
10°	4073.5	3904.6	3488.8	3017.8	2481.8	1965.3	1569.0	1247.4	1078.5	997.3	977.8
12.5°	4073.5	3891.6	3323.1	2673.5	1962.0	1344.8	971.3	786.1	730.9	711.4	711.4
15°	4063.8	3865.6	3164.0	2319.4	1452.0	903.1	724.4	685.4	678.9	675.7	672.4
17.5°	4112.5	3820.1	3001.5	1939.3	1026.5	711.4	665.9	659.4	652.9	652.9	646.4
20°	4148.2	3794.2	2806.6	1536.5	766.6	659.4	639.9	630.2	626.9	623.7	630.2
22.5°	4119.0	3755.2	2566.3	1149.9	669.2	626.9	614.0	604.2	597.7	597.7	601.0
25°	4174.2	3719.4	2325.9	867.3	626.9	597.7	584.7	578.2	575.0	571.7	565.2
27.5°	4248.9	3735.7	2040.0	698.4	591.2	568.5	555.5	549.0	545.7	539.2	545.7
30°	4339.9	3732.4	1724.9	610.7	558.7	536.0	523.0	519.7	513.3	510.0	513.3
32.5°	4495.8	3816.9	1400.1	565.2	523.0	503.5	490.5	487.3	484.0	480.8	477.5
35°	4830.4	3920.8	1094.7	529.5	490.5	467.8	458.0	451.5	448.3	445.0	441.8
37.5°	5243.0	4151.5	834.8	497.0	458.0	435.3	425.5	422.3	409.3	406.1	402.8
40°	5759.5	4398.4	643.2	461.3	428.8	406.1	396.3	386.6	370.3	363.8	357.3
42.5°	6402.6	4638.8	529.5	428.8	396.3	380.1	363.8	347.6	334.6	321.6	315.1
45°	7045.8	4918.1	464.5	399.6	370.3	350.8	337.8	315.1	292.4	272.9	269.6
47.5°	7581.8	5018.8	425.5	367.1	344.3	328.1	308.6	279.4	246.9	227.4	224.1
50°	7981.4	4960.3	386.6	334.6	315.1	298.9	272.9	237.1	204.7	185.2	178.7
52.5°	8059.3	4703.7	350.8	308.6	285.9	266.4	237.1	198.2	162.4	142.9	139.7
55°	8004.1	4278.2	321.6	285.9	259.9	230.6	198.2	159.2	126.7	107.2	103.9
57.5°	7890.4	3774.7	289.1	256.6	227.4	198.2	162.4	129.9	94.2	74.7	74.7
60°	7503.9	3089.3	256.6	224.1	194.9	168.9	133.2	94.2	65.0	48.7	45.5
62.5°	6964.6	2374.6	224.1	191.7	168.9	139.7	103.9	68.2	39.0	26.0	26.0
65°	5980.4	1663.2	188.4	159.2	139.7	113.7	78.0	42.2	22.7	9.7	9.7
67.5°	4544.5	1029.8	155.9	133.2	120.2	91.0	55.2	26.0	9.7	3.2	0.0
70°	2608.5	536.0	123.4	107.2	94.2	68.2	39.0	13.0	6.5	0.0	0.0
71°	1822.4	396.3	110.4	94.2	84.5	61.7	32.5	9.7	3.2	0.0	0.0
72.5°	912.8	263.1	94.2	78.0	68.2	48.7	26.0	9.7	3.2	0.0	0.0
75°	324.8	168.9	65.0	52.0	48.7	35.7	16.2	6.5	3.2	0.0	0.0
77.5°	224.1	136.4	45.5	32.5	32.5	22.7	9.7	3.2	3.2	0.0	0.0
80°	204.7	74.7	29.2	19.5	16.2	13.0	6.5	3.2	0.0	0.0	0.0
82.5°	204.7	55.2	16.2	13.0	9.7	6.5	3.2	0.0	0.0	0.0	0.0
85°	142.9	29.2	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	22.7	9.7	6.5	3.2	3.2	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)