

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: P484847

Luminaire Tested: **IFLD-M-SA4C-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484847
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

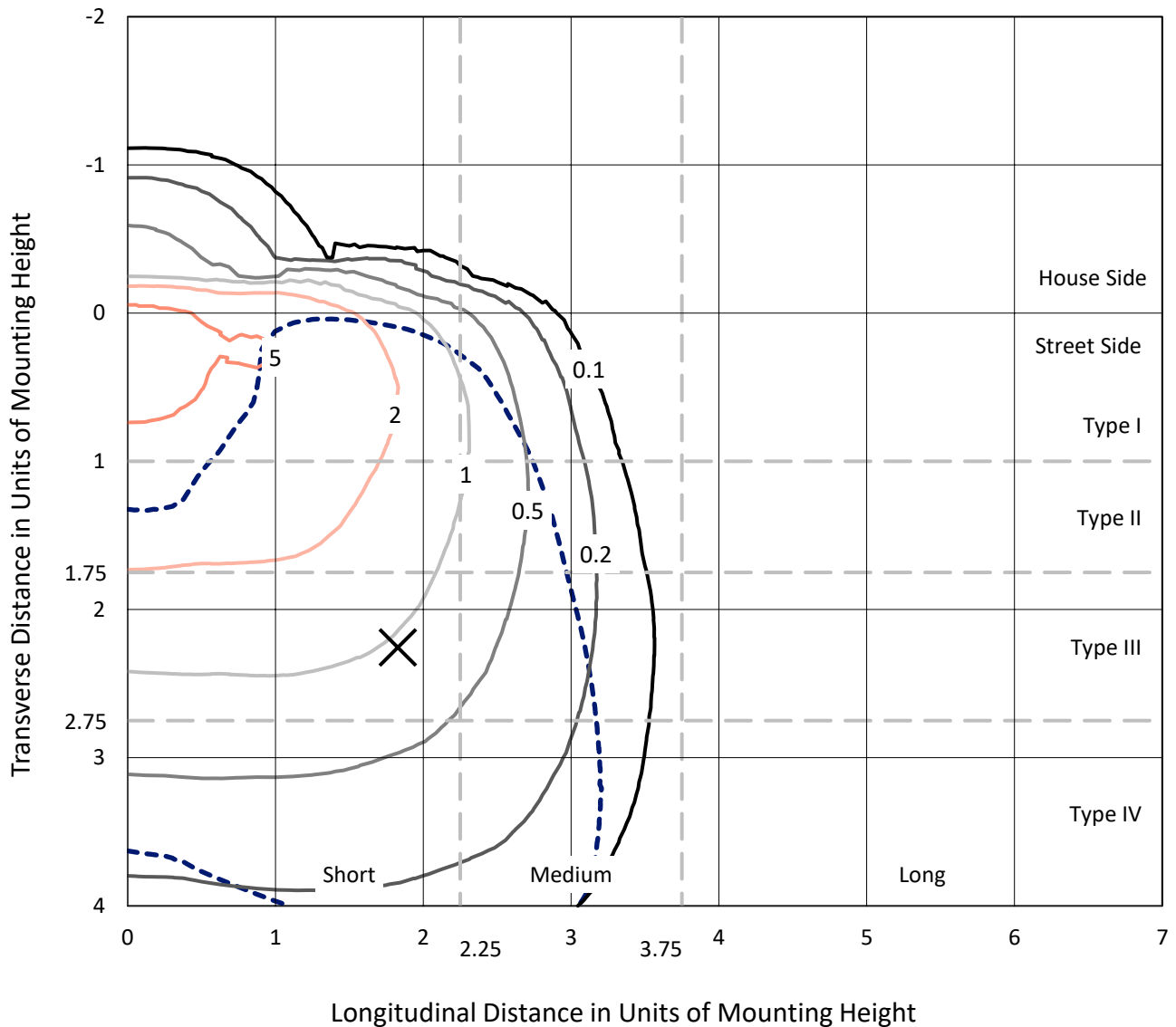
Lumens per Lamp: N/A
Luminaire Lumens: 24025.8 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

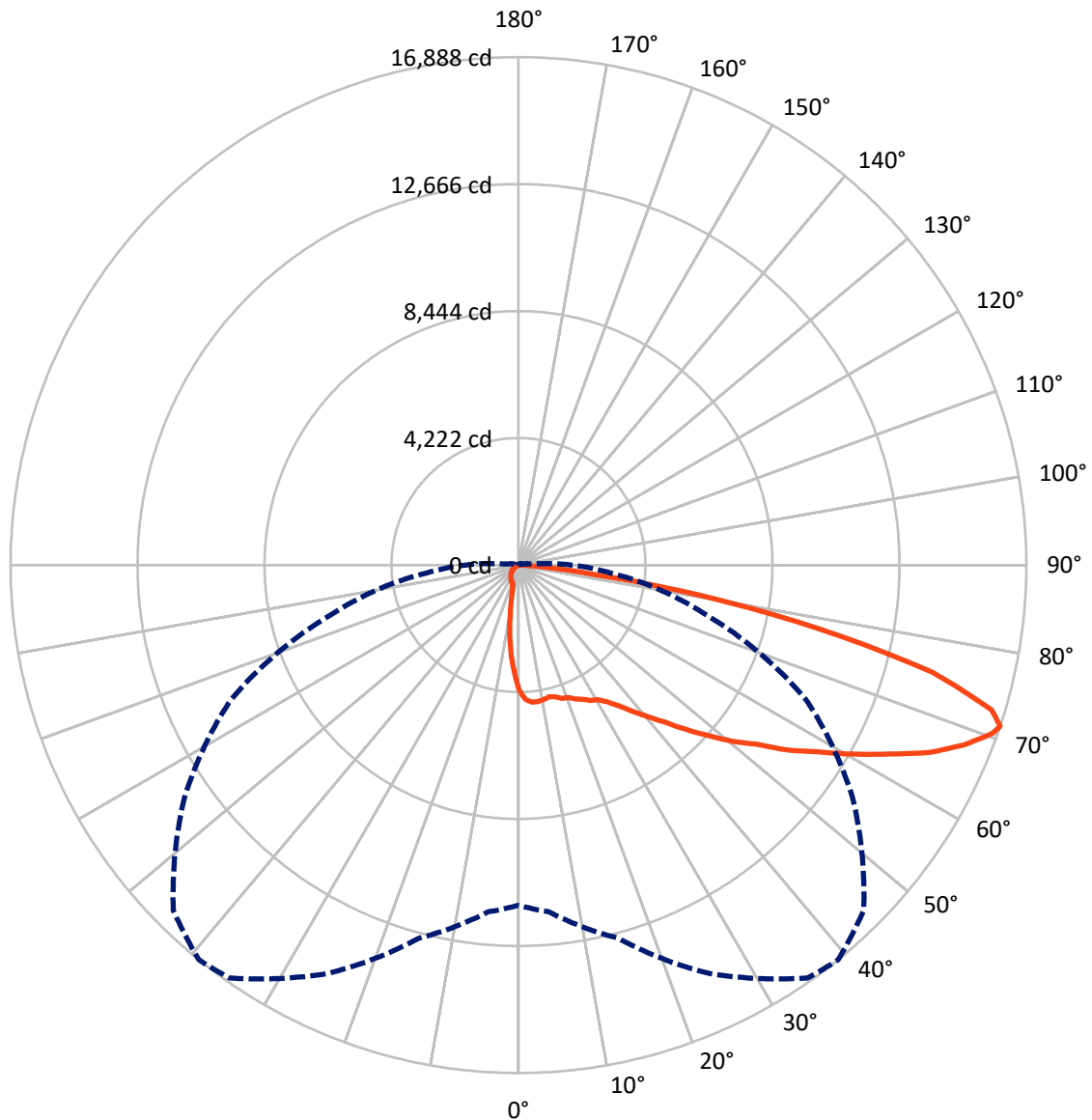
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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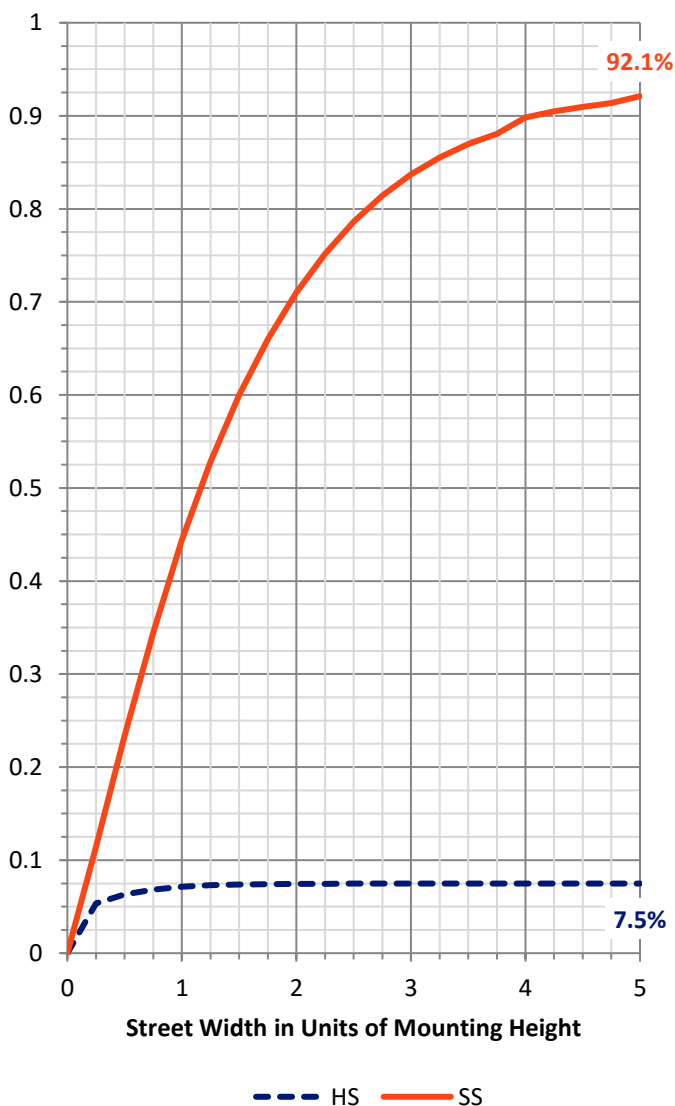
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1808.8	0.0	1808.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	22217.0	0.0	22217.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	24025.8	0.0	24025.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.6	1.5
10°-20°	860.6	3.6
20°-30°	1381.5	5.8
30°-40°	2114.7	8.8
40°-50°	3394.5	14.1
50°-60°	4986.0	20.8
60°-70°	6279.6	26.1
70°-80°	4190.9	17.4
80°-90°	468.4	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°	24025.8	100.0
0°-180°	24025.8	100.0

Coefficient of Utilization



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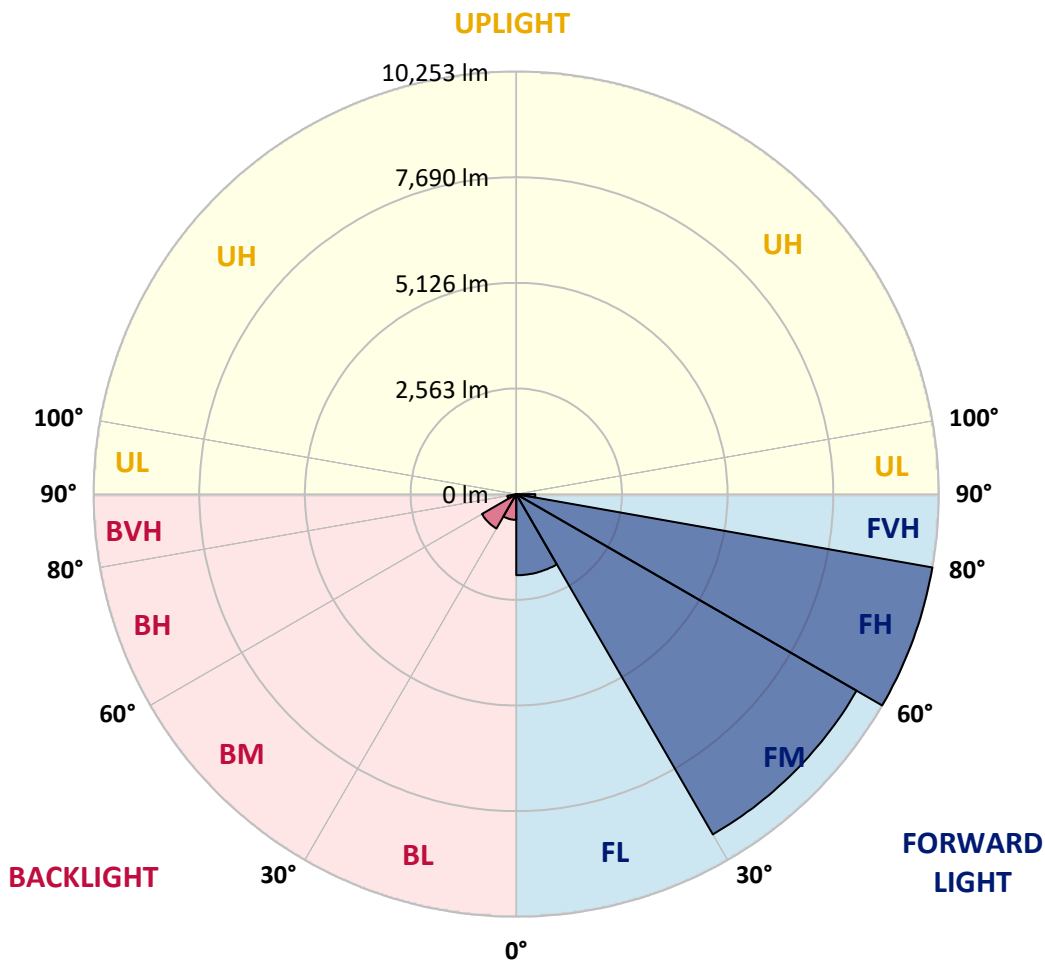
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.2	8.2			
FM (30°-60°)	9533.8	39.7			
FH (60°-80°)	10252.8	42.7			G4/12000
FVH (80°-90°)	463.2	1.9			G3/500
BL (0°-30°)	624.5	2.6	B2/1000		
BM (30°-60°)	961.4	4.0	B1/1000		
BH (60°-80°)	217.7	0.9	B1/500		G1/500
BVH (80°-90°)	5.2	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8
2.5°	4506.4	4550.5	4506.4	4487.5	4468.6	4471.8	4421.3	4430.8	4370.9	4292.1	4229.1
5°	4648.2	4708.1	4660.8	4638.8	4635.6	4575.8	4550.5	4490.7	4418.2	4295.3	4219.7
7.5°	4635.6	4623.0	4645.1	4626.2	4585.2	4585.2	4556.9	4471.8	4399.3	4260.6	4131.4
10°	4541.1	4578.9	4560.0	4537.9	4547.4	4550.5	4497.0	4437.1	4415.0	4276.4	4065.2
12.5°	4531.6	4468.6	4537.9	4541.1	4500.1	4497.0	4490.7	4474.9	4405.6	4279.5	4081.0
15°	4500.1	4474.9	4544.2	4547.4	4556.9	4547.4	4556.9	4544.2	4474.9	4402.4	4150.3
17.5°	4525.3	4497.0	4594.7	4641.9	4619.9	4664.0	4648.2	4591.5	4531.6	4446.6	4216.5
20°	4531.6	4572.6	4679.8	4698.7	4768.0	4695.5	4692.4	4632.5	4594.7	4503.3	4257.5
22.5°	4648.2	4667.1	4799.5	4840.5	4843.6	4834.2	4755.4	4686.1	4670.3	4556.9	4266.9
25°	4824.7	4890.9	4950.8	4976.0	4985.4	4941.3	4859.4	4771.1	4733.3	4660.8	4364.6
27.5°	5136.7	5095.7	5149.3	5187.1	5080.0	5095.7	4991.7	4916.1	4862.5	4799.5	4478.1
30°	5414.0	5376.2	5379.4	5373.1	5281.7	5196.6	5168.2	5035.9	4969.7	4994.9	4654.5
32.5°	5663.0	5581.0	5650.4	5618.9	5448.7	5423.5	5401.4	5234.4	5247.0	5363.6	4919.3
35°	5893.0	5864.7	5921.4	5864.7	5751.2	5744.9	5722.9	5577.9	5647.2	5814.2	5373.1
37.5°	6104.2	6113.6	6182.9	6154.6	6164.0	6170.3	6157.7	6003.3	6201.9	6576.9	5902.5
40°	6299.5	6286.9	6457.1	6545.4	6564.3	6633.6	6633.6	6595.8	6901.5	7323.7	6636.7
42.5°	6507.5	6539.1	6759.6	6907.8	7087.4	7147.3	7229.2	7248.1	7720.8	8203.0	7386.8
45°	6847.9	6794.3	7074.8	7424.6	7582.1	7793.3	7919.3	8026.5	8596.9	9258.7	8136.8
47.5°	7279.6	7172.5	7418.3	7925.6	8291.2	8464.5	8691.4	8833.2	9391.0	10074.9	8845.8
50°	7758.6	7648.3	7768.1	8467.7	8893.1	9208.2	9498.2	9677.8	10352.2	10988.8	9362.7
52.5°	8300.7	8199.8	8218.7	9031.8	9658.9	9888.9	10270.2	10538.1	11209.4	11540.2	9545.4
55°	8877.4	8852.1	8792.3	9583.3	10330.1	10846.9	11077.0	11398.4	12088.6	11839.6	9744.0
57.5°	9457.2	9378.4	9463.5	10314.4	11407.9	11716.7	12035.0	12227.2	12577.0	12101.2	9668.3
60°	10002.4	10008.7	10128.4	11108.5	12324.9	12763.0	13049.7	12933.1	13078.1	12214.6	9495.0
62.5°	10462.5	10449.9	10752.4	12000.3	13538.2	13834.4	14048.7	13528.7	13311.3	12324.9	9192.5
65°	10875.3	11017.1	11493.0	13062.3	14679.0	15019.3	14890.1	14092.8	13538.2	12000.3	8341.6
67.5°	11187.3	11398.4	12224.1	14061.3	15725.2	15964.7	15785.1	14521.4	13270.3	10727.2	6794.3
70°	11370.1	11584.4	12747.2	14893.3	16560.3	16733.7	16311.4	14190.5	11707.3	7768.1	4238.6
71°	11313.3	11574.9	12848.1	14981.5	16758.9	16888.1	16232.6	13579.2	10528.7	6504.4	3091.5
72.5°	10799.7	11045.5	12428.9	14918.5	16519.4	16440.6	15618.1	12110.6	8288.0	4147.2	1597.7
75°	7935.1	8199.8	10667.3	12904.8	14745.2	14203.1	12640.1	8499.2	4323.7	1270.0	466.4
77.5°	3951.8	3995.9	6621.0	9369.0	10815.4	10276.6	8470.8	4739.6	1616.6	375.0	233.2
80°	1821.5	1834.1	2483.3	4853.1	6539.1	6154.6	4745.9	2338.3	731.1	198.5	182.8
82.5°	1241.6	1260.5	1496.9	2010.6	2839.4	2395.0	1922.3	1496.9	419.1	119.8	179.6
85°	226.9	208.0	838.3	1065.2	1096.7	743.7	664.9	1295.2	157.6	69.3	157.6
87.5°	0.0	3.2	116.6	434.9	390.8	173.3	226.9	315.1	15.8	22.1	28.4
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°	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8	4181.8
2.5°	4175.5	4140.9	4024.3	3895.1	3778.5	3687.1	3570.5	3516.9	3431.8	3384.5	3381.4
5°	4115.7	4021.1	3819.4	3602.0	3359.3	3157.7	2933.9	2807.9	2662.9	2618.8	2609.3
7.5°	4014.8	3879.3	3583.1	3277.4	2905.5	2549.4	2275.3	1982.2	1802.6	1726.9	1698.6
10°	3951.8	3787.9	3384.5	2927.6	2407.6	1906.6	1522.1	1210.1	1046.2	967.5	948.6
12.5°	3951.8	3775.3	3223.8	2593.6	1903.4	1304.7	942.3	762.6	709.1	690.1	690.1
15°	3942.3	3750.1	3069.4	2250.1	1408.7	876.1	702.8	664.9	658.6	655.5	652.3
17.5°	3989.6	3706.0	2911.8	1881.4	995.8	690.1	646.0	639.7	633.4	633.4	627.1
20°	4024.3	3680.8	2722.8	1490.6	743.7	639.7	620.8	611.4	608.2	605.1	611.4
22.5°	3995.9	3643.0	2489.6	1115.6	649.2	608.2	595.6	586.2	579.8	579.8	583.0
25°	4049.5	3608.3	2256.4	841.4	608.2	579.8	567.2	560.9	557.8	554.6	548.3
27.5°	4122.0	3624.1	1979.0	677.5	573.5	551.5	538.9	532.6	529.4	523.1	529.4
30°	4210.2	3620.9	1673.4	592.5	542.0	520.0	507.4	504.2	497.9	494.8	497.9
32.5°	4361.5	3702.8	1358.2	548.3	507.4	488.5	475.9	472.7	469.6	466.4	463.2
35°	4686.1	3803.7	1062.0	513.7	475.9	453.8	444.3	438.0	434.9	431.7	428.6
37.5°	5086.3	4027.4	809.9	482.2	444.3	422.3	412.8	409.7	397.1	393.9	390.8
40°	5587.3	4266.9	624.0	447.5	416.0	393.9	384.5	375.0	359.3	353.0	346.6
42.5°	6211.3	4500.1	513.7	416.0	384.5	368.7	353.0	337.2	324.6	312.0	305.7
45°	6835.3	4771.1	450.6	387.6	359.3	340.3	327.7	305.7	283.6	264.7	261.6
47.5°	7355.2	4868.8	412.8	356.1	334.0	318.3	299.4	271.0	239.5	220.6	217.4
50°	7742.9	4812.1	375.0	324.6	305.7	289.9	264.7	230.0	198.5	179.6	173.3
52.5°	7818.5	4563.2	340.3	299.4	277.3	258.4	230.0	192.2	157.6	138.7	135.5
55°	7764.9	4150.3	312.0	277.3	252.1	223.7	192.2	154.4	122.9	104.0	100.8
57.5°	7654.6	3661.9	280.5	249.0	220.6	192.2	157.6	126.1	91.4	72.5	72.5
60°	7279.6	2996.9	249.0	217.4	189.1	163.9	129.2	91.4	63.0	47.3	44.1
62.5°	6756.5	2303.6	217.4	185.9	163.9	135.5	100.8	66.2	37.8	25.2	25.2
65°	5801.6	1613.5	182.8	154.4	135.5	110.3	75.6	41.0	22.1	9.5	9.5
67.5°	4408.7	999.0	151.3	129.2	116.6	88.2	53.6	25.2	9.5	3.2	0.0
70°	2530.5	520.0	119.8	104.0	91.4	66.2	37.8	12.6	6.3	0.0	0.0
71°	1767.9	384.5	107.1	91.4	81.9	59.9	31.5	9.5	3.2	0.0	0.0
72.5°	885.5	255.3	91.4	75.6	66.2	47.3	25.2	9.5	3.2	0.0	0.0
75°	315.1	163.9	63.0	50.4	47.3	34.7	15.8	6.3	3.2	0.0	0.0
77.5°	217.4	132.4	44.1	31.5	31.5	22.1	9.5	3.2	3.2	0.0	0.0
80°	198.5	72.5	28.4	18.9	15.8	12.6	6.3	3.2	0.0	0.0	0.0
82.5°	198.5	53.6	15.8	12.6	9.5	6.3	3.2	0.0	0.0	0.0	0.0
85°	138.7	28.4	9.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	9.5	6.3	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)