

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: P481464

Luminaire Tested: **IFLD-L-SA8C-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481464
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

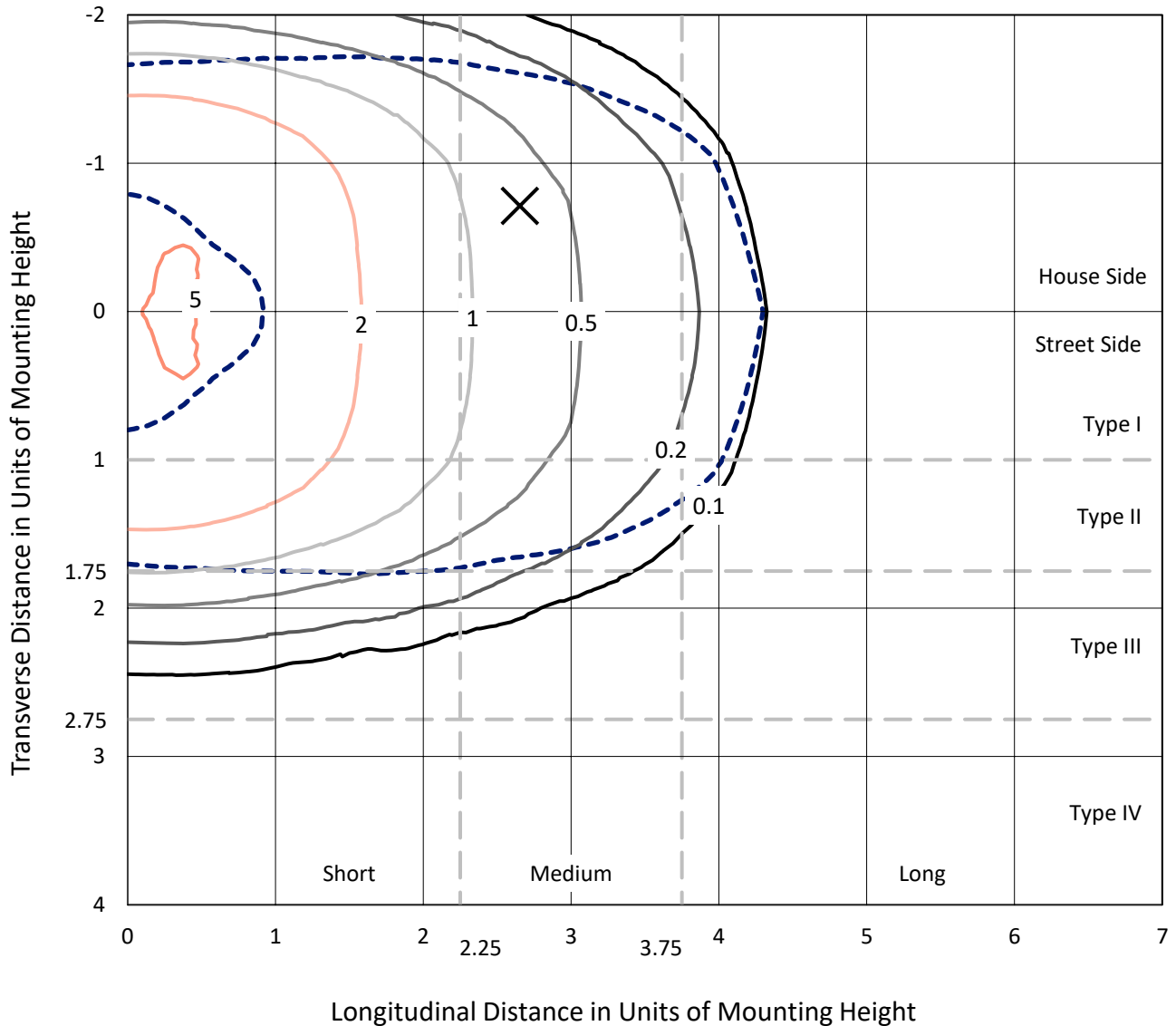
Lumens per Lamp: N/A
Luminaire Lumens: 41466.4 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

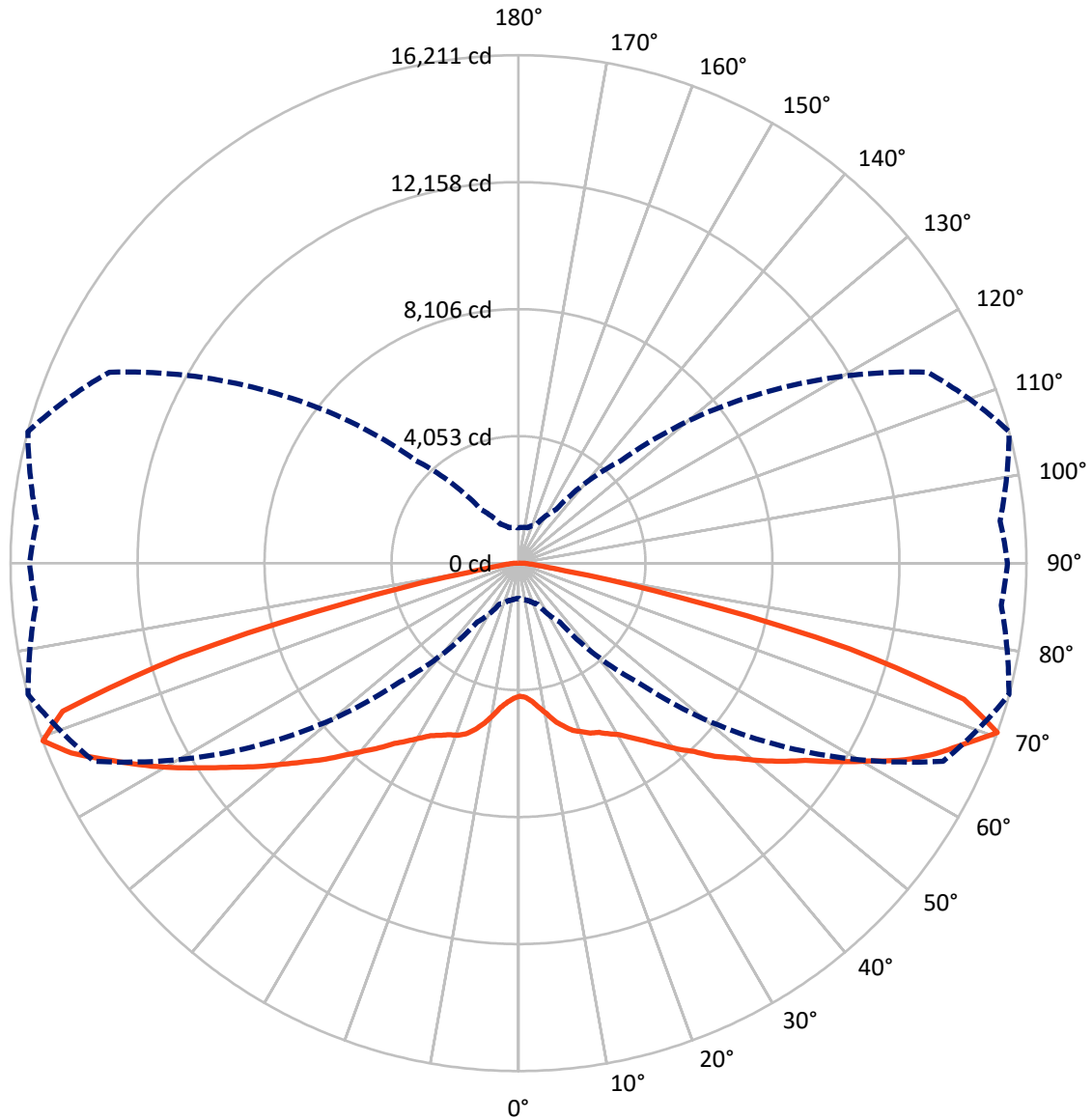
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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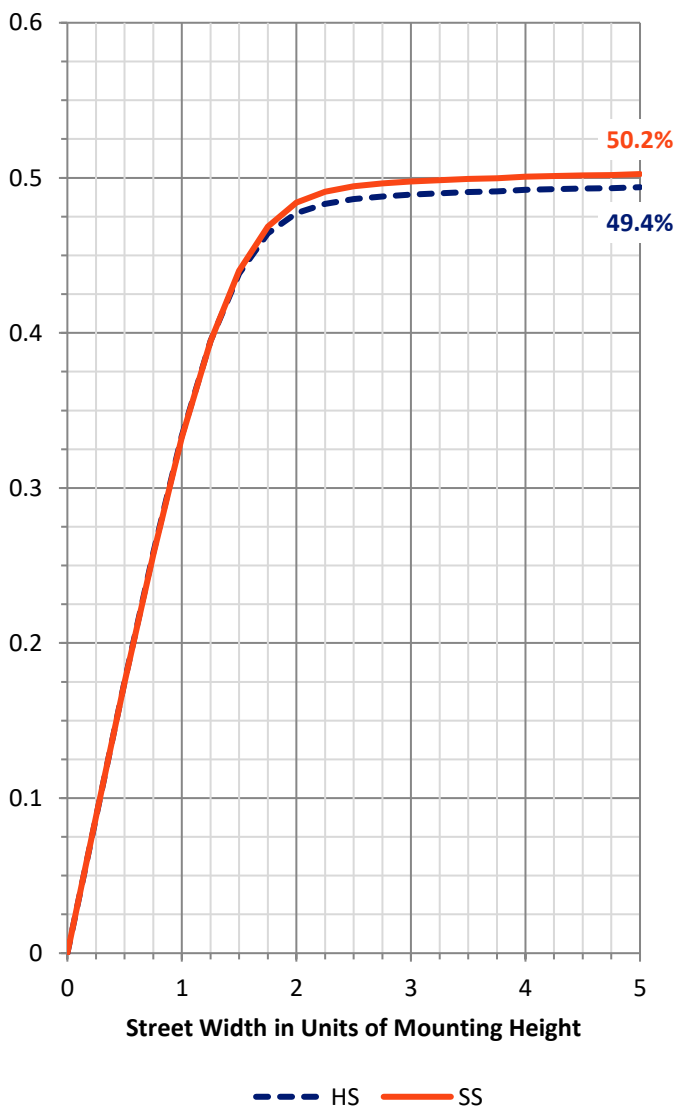
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20585.7	0.0	20585.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	20880.7	0.0	20880.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	41466.4	0.0	41466.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.6	1.0
10°-20°	1439.0	3.5
20°-30°	2786.4	6.7
30°-40°	4713.0	11.4
40°-50°	7518.7	18.1
50°-60°	10291.4	24.8
60°-70°	9700.4	23.4
70°-80°	4273.3	10.3
80°-90°	321.5	0.8
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°	41466.4	100.0
0°-180°	41466.4	100.0

Coefficient of Utilization

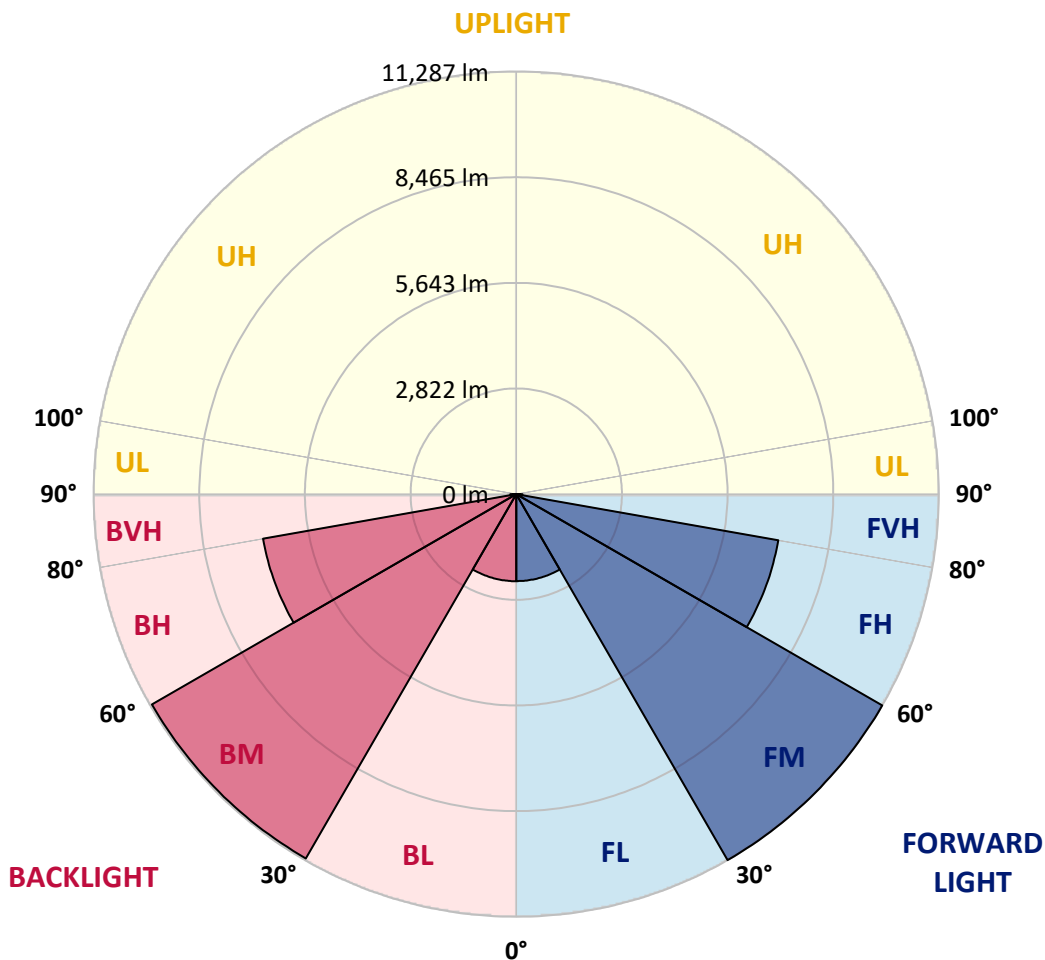


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2322.8	5.6			
FM (30°-60°)	11286.8	27.2			
FH (60°-80°)	7106.9	17.1			G3/7500
FVH (80°-90°)	164.2	0.4			G2/225
BL (0°-30°)	2325.3	5.6	B3/2500		
BM (30°-60°)	11236.4	27.1	B5		
BH (60°-80°)	6866.8	16.6	B5		G5
BVH (80°-90°)	157.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1
2.5°	4219.3	4219.3	4214.8	4237.2	4259.5	4268.5	4286.3	4290.8	4317.6	4295.3	4340.0
5°	4205.9	4201.4	4237.2	4290.8	4290.8	4348.9	4384.7	4433.8	4447.3	4474.1	4483.0
7.5°	4299.8	4290.8	4272.9	4331.0	4380.2	4469.6	4518.8	4603.7	4635.0	4670.7	4711.0
10°	4357.9	4357.9	4340.0	4442.8	4487.5	4608.2	4715.4	4800.4	4921.0	4961.3	4965.7
12.5°	4366.8	4380.2	4433.8	4567.9	4693.1	4849.5	4930.0	5090.9	5211.6	5287.5	5314.4
15°	4500.9	4474.1	4532.2	4715.4	4898.7	5037.2	5180.3	5296.5	5470.8	5569.1	5631.7
17.5°	4621.6	4594.7	4702.0	4921.0	5108.8	5323.3	5448.4	5573.6	5698.7	5788.1	5792.6
20°	4813.8	4836.1	4930.0	5166.9	5412.7	5600.4	5743.4	5765.8	5828.4	5958.0	5935.6
22.5°	5050.6	5032.8	5229.4	5488.7	5756.8	5913.3	5993.7	5935.6	5904.3	6042.9	6074.2
25°	5287.5	5341.2	5520.0	5761.3	6083.1	6293.2	6315.5	6154.6	6038.4	6087.6	6074.2
27.5°	5649.6	5658.5	5846.2	6132.3	6458.6	6641.8	6628.4	6400.5	6177.0	6181.5	6190.4
30°	6114.4	6069.7	6275.3	6534.6	6856.4	7021.7	7044.1	6717.8	6418.3	6329.0	6351.3
32.5°	6561.4	6615.0	6793.8	7088.8	7325.7	7419.5	7370.4	7079.8	6691.0	6570.3	6583.7
35°	7133.5	7124.5	7370.4	7620.7	7799.5	7817.3	7777.1	7352.5	6986.0	6829.5	6767.0
37.5°	7745.8	7826.3	7987.2	8192.8	8380.5	8389.4	8170.4	7830.7	7379.3	7120.1	7196.1
40°	8429.7	8519.1	8635.3	8934.7	9073.3	8930.3	8706.8	8246.4	7777.1	7549.2	7584.9
42.5°	9033.1	9073.3	9310.2	9663.3	9730.3	9667.7	9337.0	8778.3	8233.0	7982.7	8000.6
45°	9587.3	9640.9	9949.3	10266.7	10423.1	10315.8	9931.5	9399.6	8764.9	8550.3	8465.4
47.5°	10096.8	10204.1	10503.6	10829.8	11071.2	11080.1	10606.4	9962.7	9292.3	9010.7	9006.2
50°	10441.0	10597.4	10892.4	11263.4	11616.5	11755.0	11281.3	10588.5	9868.9	9569.4	9538.1
52.5°	10628.7	10789.6	11084.6	11661.2	12054.5	12269.1	12045.6	11174.0	10543.8	10230.9	10181.8
55°	10400.8	10508.0	10990.7	11799.7	12407.6	12760.7	12613.2	11983.0	11214.2	10959.5	11004.2
57.5°	9430.9	9654.3	10248.8	11258.9	12398.7	13265.8	13252.4	12747.3	11987.5	11746.1	11755.0
60°	7763.7	7951.4	8684.4	10096.8	11898.1	13471.4	13945.2	13489.3	12854.6	12573.0	12564.0
62.5°	5479.7	5716.6	6565.8	8107.9	10423.1	13185.3	14740.7	14423.4	13703.8	13498.2	13574.2
65°	3066.1	3209.2	3995.8	5390.3	7942.5	11612.0	14883.8	15393.3	14566.4	14253.6	14267.0
67.5°	1640.3	1694.0	2060.5	2829.3	4858.5	8952.6	13440.1	15952.0	15500.6	14959.8	14874.8
70°	1126.3	1144.2	1238.1	1448.2	2297.4	5354.6	10137.1	14955.3	16202.3	15464.8	15607.8
72.5°	952.0	943.1	965.4	987.8	1202.3	2395.7	5949.0	11509.2	15295.0	15017.9	14964.2
75°	826.9	822.4	831.3	809.0	835.8	1054.8	2632.6	7173.7	11196.3	12497.0	12698.1
77.5°	683.8	688.3	692.8	670.4	661.5	697.3	1059.3	3151.1	5511.0	6083.1	6561.4
80°	518.5	527.4	563.2	540.8	505.1	509.5	625.7	1054.8	1582.2	1434.7	1479.4
82.5°	353.1	357.6	433.6	406.7	379.9	344.2	402.3	545.3	616.8	469.3	411.2
85°	250.3	245.8	281.6	259.2	241.4	174.3	241.4	308.4	371.0	232.4	210.1
87.5°	58.1	58.1	116.2	93.9	89.4	71.5	93.9	120.7	160.9	102.8	93.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1
2.5°	4326.6	4286.3	4286.3	4277.4	4241.7	4232.7	4201.4	4210.4	4188.0	4165.7
5°	4478.5	4424.9	4424.9	4348.9	4277.4	4268.5	4232.7	4232.7	4197.0	4205.9
7.5°	4688.6	4639.4	4559.0	4491.9	4393.6	4353.4	4286.3	4277.4	4268.5	4250.6
10°	4938.9	4876.3	4795.9	4657.3	4576.9	4500.9	4433.8	4340.0	4317.6	4322.1
12.5°	5278.6	5180.3	5006.0	4885.3	4782.5	4684.1	4585.8	4447.3	4416.0	4429.4
15°	5520.0	5394.8	5220.5	5175.8	5037.2	4916.6	4755.7	4599.2	4545.6	4532.2
17.5°	5716.6	5613.8	5511.0	5444.0	5332.2	5184.7	4961.3	4782.5	4661.8	4648.4
20°	5877.5	5743.4	5721.1	5761.3	5622.8	5524.4	5251.8	5032.8	4871.9	4804.8
22.5°	5975.9	5890.9	5953.5	5989.3	5980.3	5815.0	5533.4	5278.6	5077.5	5014.9
25°	6083.1	5984.8	6208.3	6329.0	6360.2	6087.6	5868.6	5533.4	5336.7	5296.5
27.5°	6136.8	6172.5	6431.8	6686.5	6664.2	6454.1	6159.1	5859.6	5703.2	5631.7
30°	6293.2	6351.3	6744.6	7030.7	7035.2	6829.5	6606.1	6266.4	6092.1	6060.8
32.5°	6574.8	6646.3	7066.4	7370.4	7424.0	7267.6	7044.1	6834.0	6655.2	6583.7
35°	6789.3	6972.6	7446.4	7723.5	7866.5	7772.6	7647.5	7428.5	7240.8	7178.2
37.5°	7097.7	7352.5	7808.4	8183.8	8344.7	8335.8	8241.9	8005.1	7848.6	7795.0
40°	7540.2	7795.0	8210.7	8706.8	9006.2	8992.8	8939.2	8755.9	8523.5	8496.7
42.5°	8009.5	8219.6	8760.4	9328.1	9757.1	9712.4	9569.4	9354.9	9194.0	9158.2
45°	8465.4	8791.7	9292.3	10020.8	10342.7	10454.4	10284.6	9918.0	9734.8	9712.4
47.5°	9037.5	9296.8	9922.5	10575.1	11053.3	11071.2	10780.7	10441.0	10105.8	10177.3
50°	9547.1	9891.2	10525.9	11241.0	11813.2	11607.6	11236.6	10812.0	10570.6	10476.7
52.5°	10092.4	10512.5	11250.0	11978.5	12295.9	12090.3	11486.9	11013.1	10646.6	10606.4
55°	10887.9	11107.0	12072.4	12631.1	12733.9	12300.3	11410.9	10740.5	10266.7	10150.5
57.5°	11696.9	11951.7	12796.5	13279.2	13171.9	12184.1	10919.2	9882.3	9261.0	9095.6
60°	12514.9	12827.8	13538.4	13980.9	13426.7	11384.1	9529.2	8192.8	7468.7	7321.2
62.5°	13426.7	13833.4	14468.1	14624.5	12671.3	9801.8	7562.6	5913.3	5180.3	4934.4
65°	14235.7	14651.4	15433.5	14490.4	11066.7	7312.3	4889.7	3379.0	2838.2	2641.5
67.5°	14901.6	15371.0	15755.3	12823.3	8103.4	4281.9	2547.7	1778.9	1577.8	1506.3
70°	15429.1	16211.2	14414.5	9426.4	4630.5	2087.3	1376.6	1171.0	1144.2	1126.3
72.5°	14968.7	14865.9	10762.8	5439.5	2029.2	1148.7	996.7	965.4	961.0	965.4
75°	12242.2	10919.2	6436.2	2364.4	1019.1	831.3	826.9	813.5	835.8	835.8
77.5°	5940.1	5193.7	2690.7	1014.6	670.4	652.6	674.9	674.9	674.9	674.9
80°	1376.6	1524.1	961.0	616.8	487.2	487.2	536.4	540.8	518.5	509.5
82.5°	469.3	625.7	527.4	388.9	321.8	362.0	406.7	415.7	344.2	348.6
85°	232.4	366.5	286.1	223.5	165.4	223.5	263.7	277.1	236.9	227.9
87.5°	107.3	160.9	107.3	76.0	58.1	80.5	76.0	62.6	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)