

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: P482235

Luminaire Tested: **IFLD-M-SA4D-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482235
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

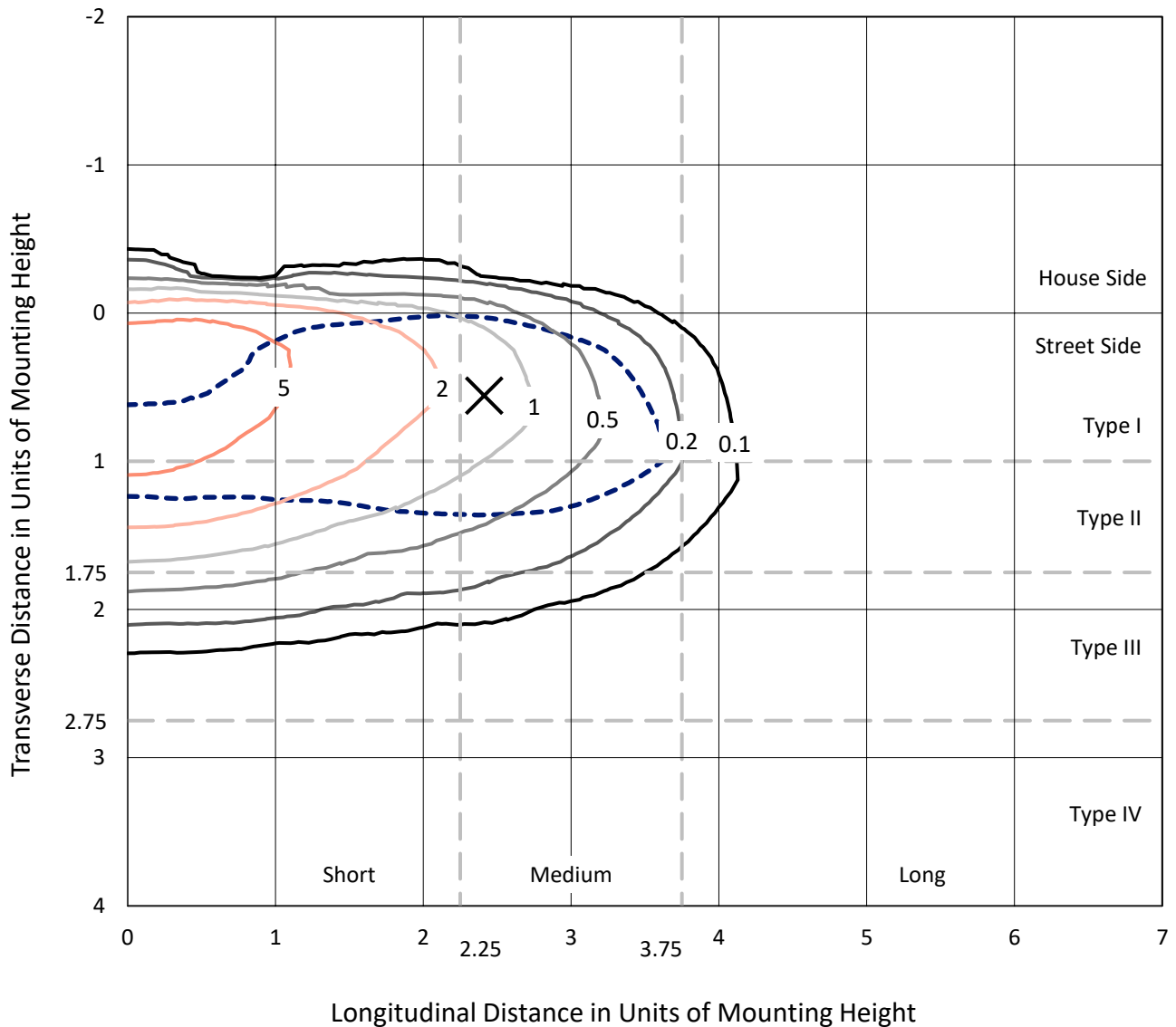
Lumens per Lamp: N/A
Luminaire Lumens: 19543.7 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 249.7
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

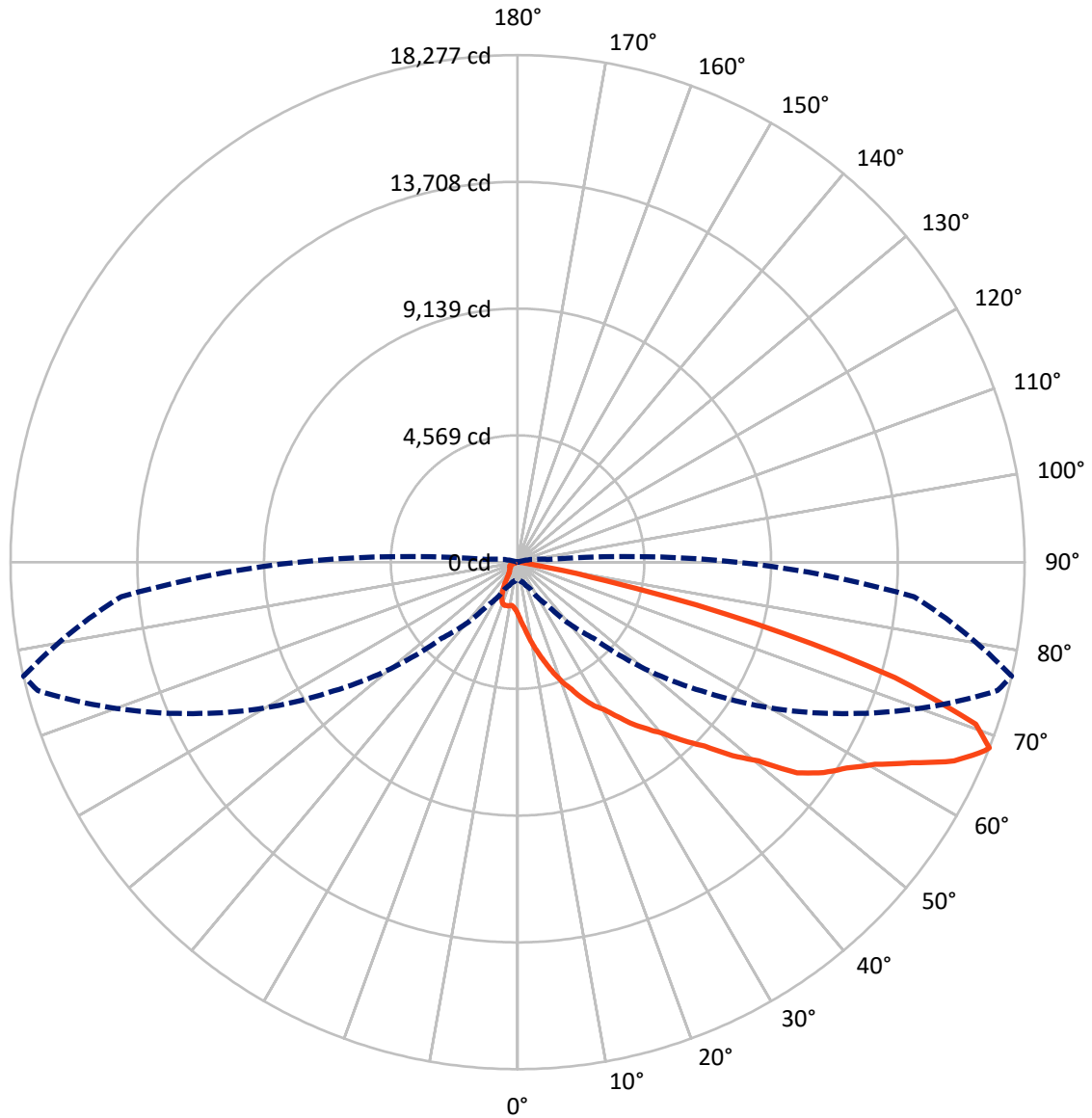
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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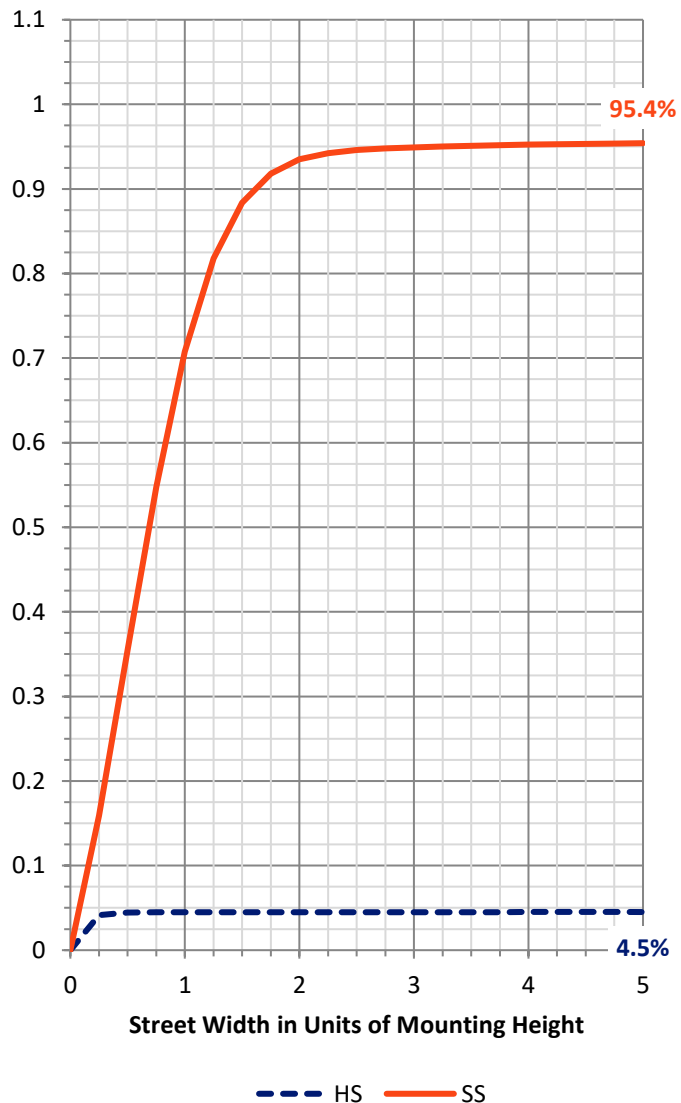
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.3	0.0	886.3
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	18657.4	0.0	18657.4
	% Fixture	95.5	0.0	95.5
Total	Lumens	19543.7	0.0	19543.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	1.1
10°-20°	806.3	4.1
20°-30°	1562.6	8.0
30°-40°	2724.2	13.9
40°-50°	3989.8	20.4
50°-60°	4687.4	24.0
60°-70°	3958.1	20.3
70°-80°	1534.3	7.9
80°-90°	62.4	0.3
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°	19543.7	100.0
0°-180°	19543.7	100.0

Coefficient of Utilization

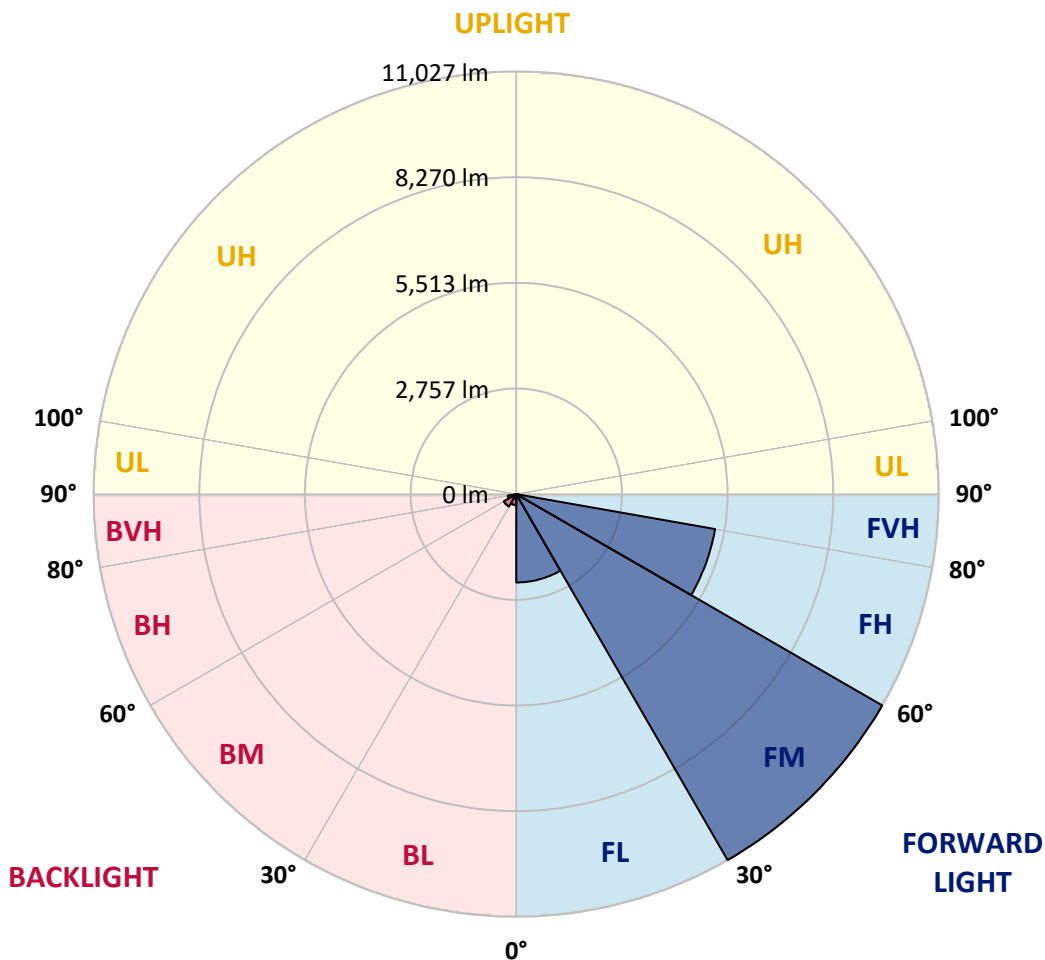


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2304.4	11.8			
FM (30°-60°)	11026.9	56.4			
FH (60°-80°)	5268.6	27.0			G3/7500
FVH (80°-90°)	57.6	0.3			G1/100
BL (0°-30°)	283.2	1.4	B1/500		
BM (30°-60°)	374.5	1.9	B1/1000		
BH (60°-80°)	223.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	2843.4	2789.5	2733.0	2716.8	2611.8	2493.3	2382.9	2275.2	2094.8	2097.5	1973.7
5°	3664.6	3597.3	3551.5	3540.7	3376.5	3171.9	3004.9	2700.7	2401.8	2334.5	2108.3
7.5°	4340.4	4318.9	4251.6	4195.0	4073.9	3823.5	3626.9	3190.7	2735.7	2660.3	2272.5
10°	4749.7	4782.0	4811.6	4738.9	4644.7	4464.3	4195.0	3723.8	3115.3	3021.1	2485.2
12.5°	5185.9	5132.0	5150.9	5210.1	5086.3	5045.9	4712.0	4273.1	3559.6	3379.2	2754.5
15°	5299.0	5320.5	5366.3	5538.6	5622.1	5506.3	5218.2	4717.4	4020.0	3769.6	3004.9
17.5°	5374.4	5363.6	5420.2	5678.6	5805.2	5915.6	5735.2	5212.8	4421.2	4197.7	3317.3
20°	5468.6	5409.4	5533.2	5697.5	5991.0	6222.5	6214.5	5711.0	4841.3	4604.3	3626.9
22.5°	5818.7	5772.9	5872.5	5888.7	6093.3	6416.4	6494.5	6117.5	5272.1	4981.3	3960.8
25°	6464.9	6548.3	6429.9	6327.6	6389.5	6602.2	6658.7	6478.3	5705.6	5439.0	4294.7
27.5°	7410.0	7399.2	7164.9	7033.0	6884.9	6858.0	6898.4	6814.9	6047.5	5856.4	4569.3
30°	8425.1	8336.2	8120.8	7803.1	7477.3	7275.3	7218.8	7132.6	6448.7	6171.4	4841.3
32.5°	9232.8	9281.3	9041.7	8627.0	8085.8	7813.9	7541.9	7447.7	6890.3	6645.3	5153.6
35°	9976.0	9911.4	9720.2	9370.2	8885.5	8446.6	8021.2	7819.2	7420.7	7178.4	5498.2
37.5°	10525.3	10606.1	10242.6	9908.7	9426.7	9063.2	8645.9	8204.3	7967.3	7644.2	5918.3
40°	11044.9	10918.4	10673.4	10366.4	9919.4	9642.1	9367.5	8678.2	8548.9	8131.6	6392.2
42.5°	10953.4	10961.5	10826.8	10579.1	10256.0	10097.2	10002.9	9254.4	9076.7	8810.1	6855.3
45°	10579.1	10611.4	10657.2	10536.0	10563.0	10404.1	10657.2	9916.8	9741.7	9459.0	7388.4
47.5°	10167.2	10221.0	10210.2	10431.0	10681.4	10735.3	11368.1	10651.8	10576.4	10420.3	8126.2
50°	9483.3	9504.8	9712.1	10113.3	10455.3	11018.0	11901.2	11454.2	11570.0	11263.0	9004.0
52.5°	8314.7	8392.8	8925.9	9499.4	10188.7	11160.7	12262.0	12647.0	12940.5	12625.5	9846.7
55°	6836.4	6944.2	7469.2	8543.5	9553.3	10945.3	12590.5	13277.1	13872.1	13395.6	10358.3
57.5°	5500.9	5511.7	5982.9	7092.2	8651.2	10522.6	12757.4	13584.0	14383.7	14001.4	10983.0
60°	4192.3	4149.3	4572.0	5533.2	7132.6	9483.3	12340.1	13740.2	15021.9	14801.1	11734.2
62.5°	2698.0	2630.6	3091.1	4028.1	5570.9	7751.9	11505.4	13742.9	16018.1	15934.7	12991.7
65°	1335.5	1289.7	1685.6	2469.1	3855.8	5929.1	10315.3	13691.7	17235.2	17289.0	14216.8
67.5°	705.5	721.6	848.2	1252.0	2224.1	4189.6	8522.0	13091.3	17857.2	18158.7	14513.0
68°	648.9	654.3	753.9	1042.0	1930.6	3885.4	8096.6	12916.3	17905.6	18277.2	14348.7
70°	527.7	535.8	570.8	654.3	1044.7	2528.3	6246.8	11430.0	17175.9	17515.2	12989.0
72.5°	420.0	444.3	465.8	500.8	613.9	1327.4	3885.4	8907.0	14189.9	14227.6	10110.6
75°	320.4	339.3	382.3	412.0	479.3	729.7	1849.8	5430.9	9310.9	8853.2	5956.0
77.5°	247.7	263.9	282.7	323.1	401.2	492.7	565.4	2304.8	3955.4	3255.3	1682.9
80°	148.1	158.9	220.8	253.1	350.0	333.9	223.5	640.8	802.4	632.8	307.0
82.5°	86.2	94.2	126.6	193.9	245.0	180.4	131.9	199.3	196.6	172.3	102.3
85°	2.7	5.4	70.0	115.8	86.2	48.5	80.8	83.5	70.0	64.6	45.8
87.5°	0.0	2.7	18.8	16.2	18.8	10.8	16.2	21.5	26.9	24.2	18.8
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°	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1890.2	1831.0	1699.0	1599.4	1491.7	1427.1	1362.4	1322.1	1300.5	1287.1	1297.8
5°	1938.7	1814.8	1602.1	1413.6	1289.7	1206.3	1122.8	1079.7	1039.3	1017.8	1031.3
7.5°	2046.4	1860.6	1507.8	1303.2	1157.8	1028.6	923.6	840.1	791.6	748.5	756.6
10°	2178.3	1887.5	1510.5	1238.6	1028.6	823.9	675.8	570.8	511.6	473.9	471.2
12.5°	2312.9	1992.5	1521.3	1174.0	869.7	619.3	444.3	366.2	331.2	312.3	312.3
15°	2517.6	2086.7	1494.4	1055.5	659.7	403.9	304.3	277.3	263.9	247.7	250.4
17.5°	2695.3	2237.5	1480.9	877.8	452.4	290.8	253.1	223.5	210.0	193.9	193.9
20°	2934.9	2331.8	1408.2	678.5	312.3	242.3	204.6	177.7	156.2	142.7	145.4
22.5°	3153.0	2404.5	1279.0	463.1	239.6	191.2	150.8	123.9	105.0	88.9	91.5
25°	3390.0	2477.2	1090.5	285.4	169.6	118.5	80.8	59.2	40.4	29.6	29.6
27.5°	3559.6	2498.7	845.5	169.6	102.3	53.9	18.8	2.7	0.0	0.0	0.0
30°	3731.9	2506.8	584.3	91.5	40.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3928.5	2504.1	366.2	48.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	4079.3	2458.3	175.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4308.1	2391.0	53.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4569.3	2269.8	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4803.6	2146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5070.1	1992.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5538.6	1927.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6149.8	1876.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6526.8	1725.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6723.4	1569.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7014.2	1494.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7445.0	1499.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8118.1	1575.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8489.7	1499.8	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8174.7	1200.9	51.2	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	7902.7	1104.0	51.2	13.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	6532.2	718.9	48.5	13.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4757.8	398.5	40.4	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2768.0	199.3	29.6	10.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	721.6	99.6	24.2	13.5	8.1	2.7	0.0	0.0	0.0	0.0	0.0
80°	142.7	64.6	21.5	16.2	10.8	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	67.3	45.8	21.5	16.2	13.5	8.1	2.7	0.0	0.0	0.0	0.0
85°	35.0	21.5	21.5	16.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0
87.5°	16.2	8.1	8.1	8.1	8.1	5.4	2.7	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)