

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: P481293

Luminaire Tested: **IFLD-S-SA6C-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481293
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

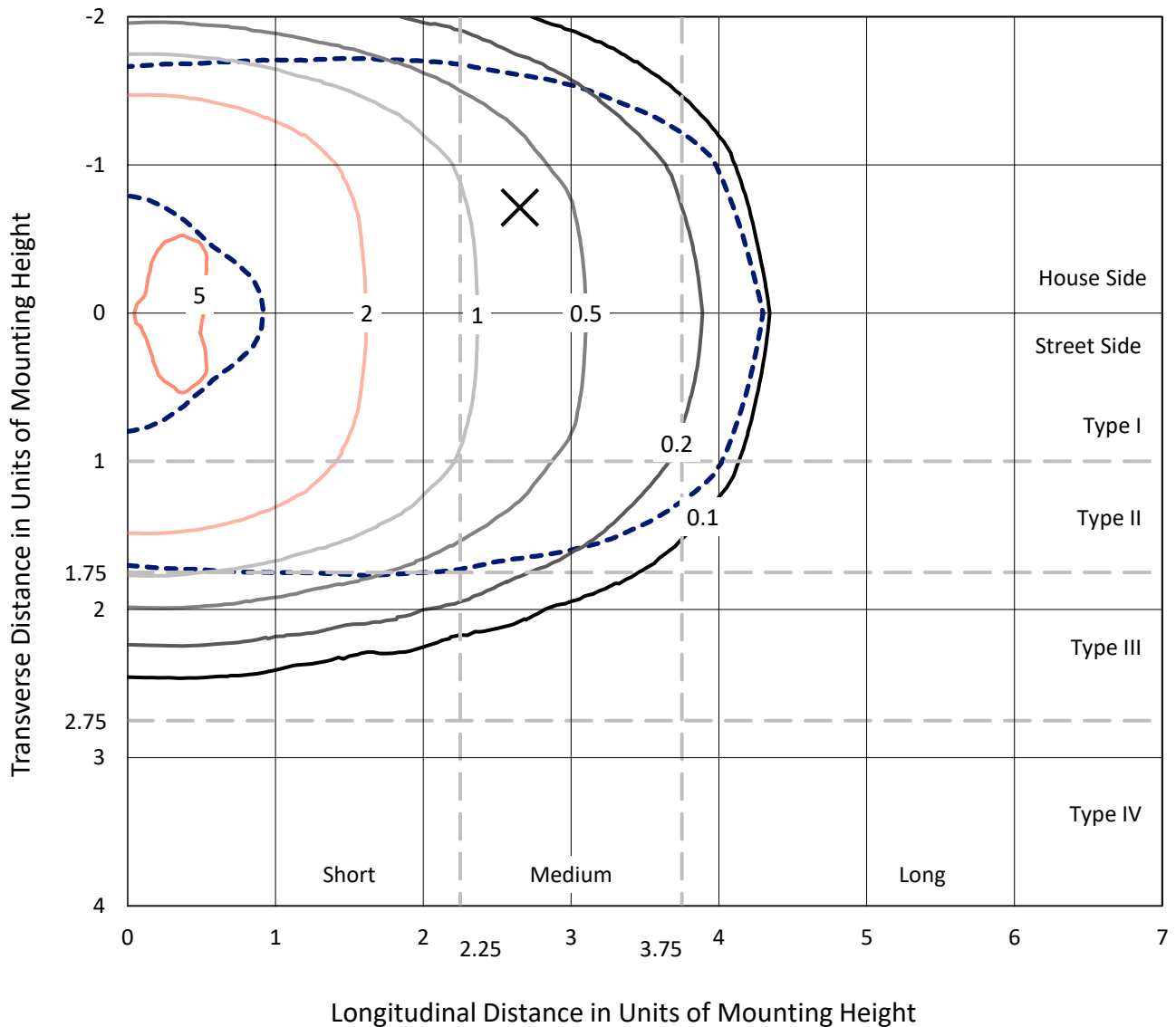
Lumens per Lamp: N/A
Luminaire Lumens: 42799.5 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 321.5
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

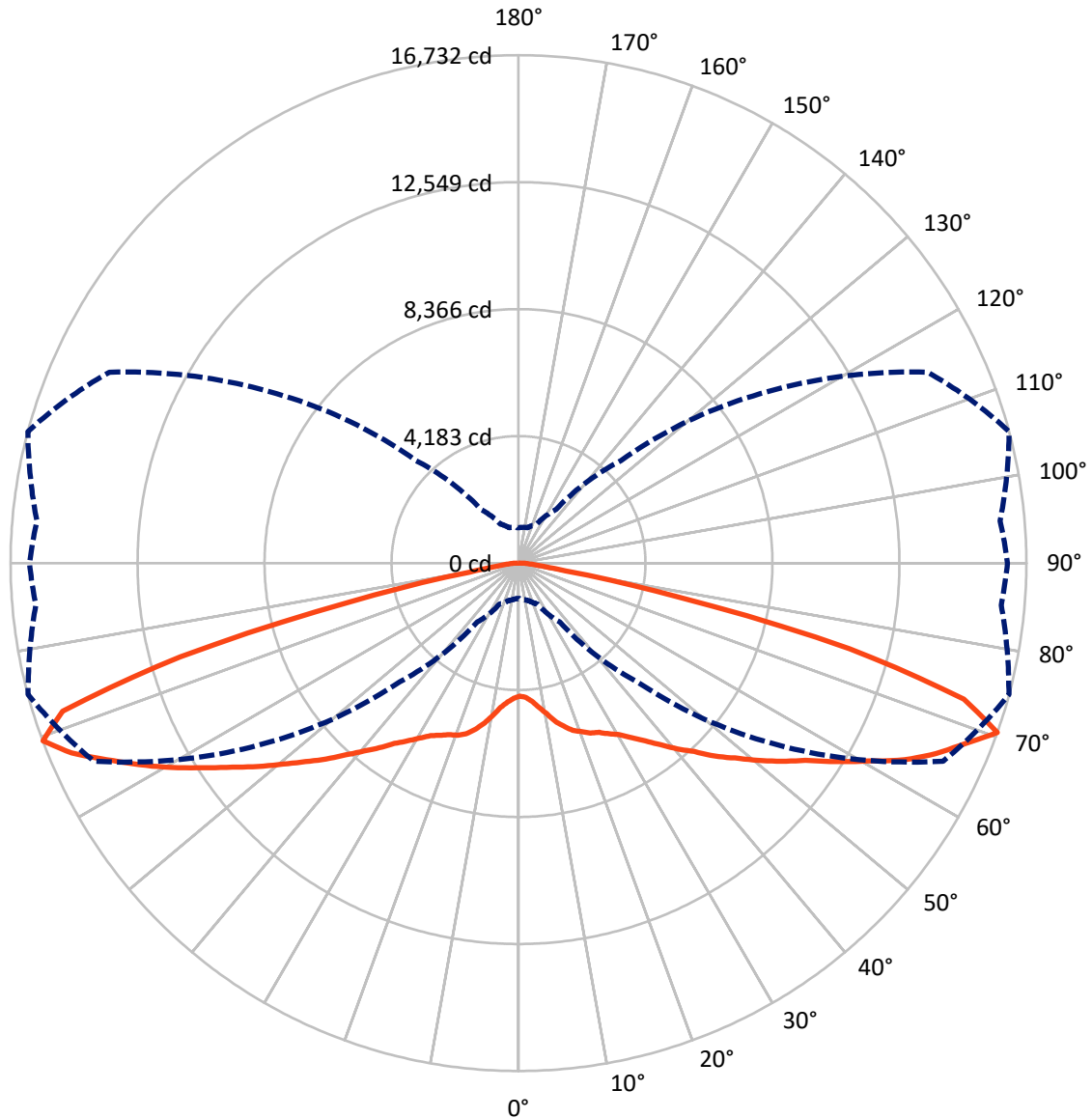
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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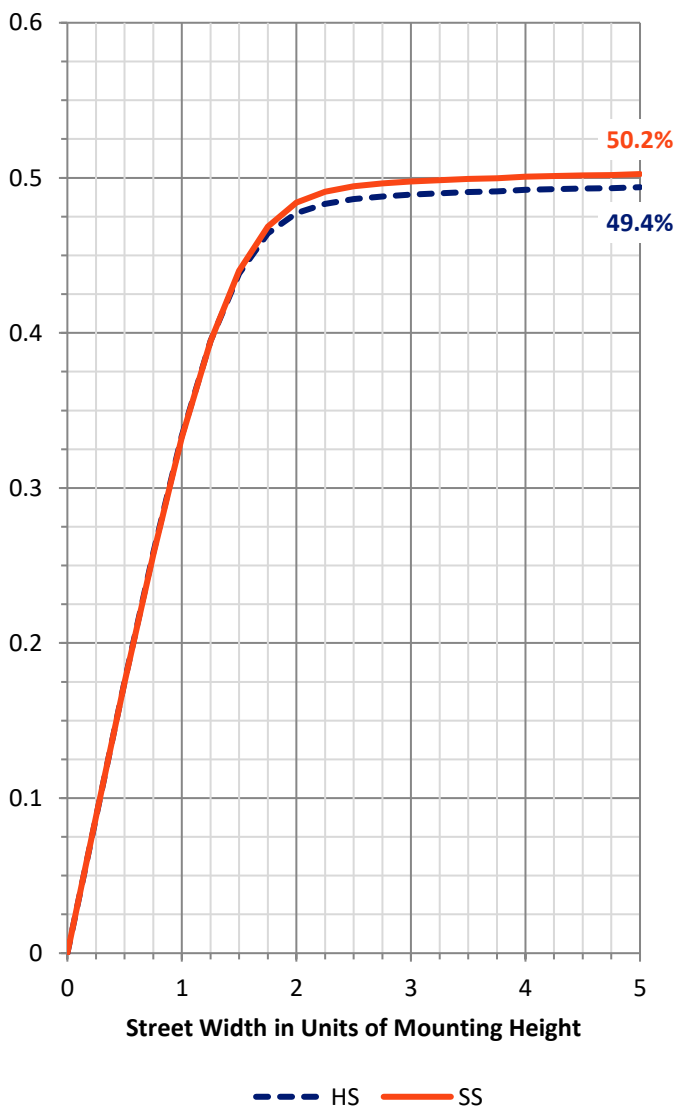
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21247.5	0.0	21247.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21552.0	0.0	21552.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	42799.5	0.0	42799.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.2	1.0
10°-20°	1485.3	3.5
20°-30°	2876.0	6.7
30°-40°	4864.5	11.4
40°-50°	7760.4	18.1
50°-60°	10622.3	24.8
60°-70°	10012.2	23.4
70°-80°	4410.7	10.3
80°-90°	331.9	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°	42799.5	100.0
0°-180°	42799.5	100.0

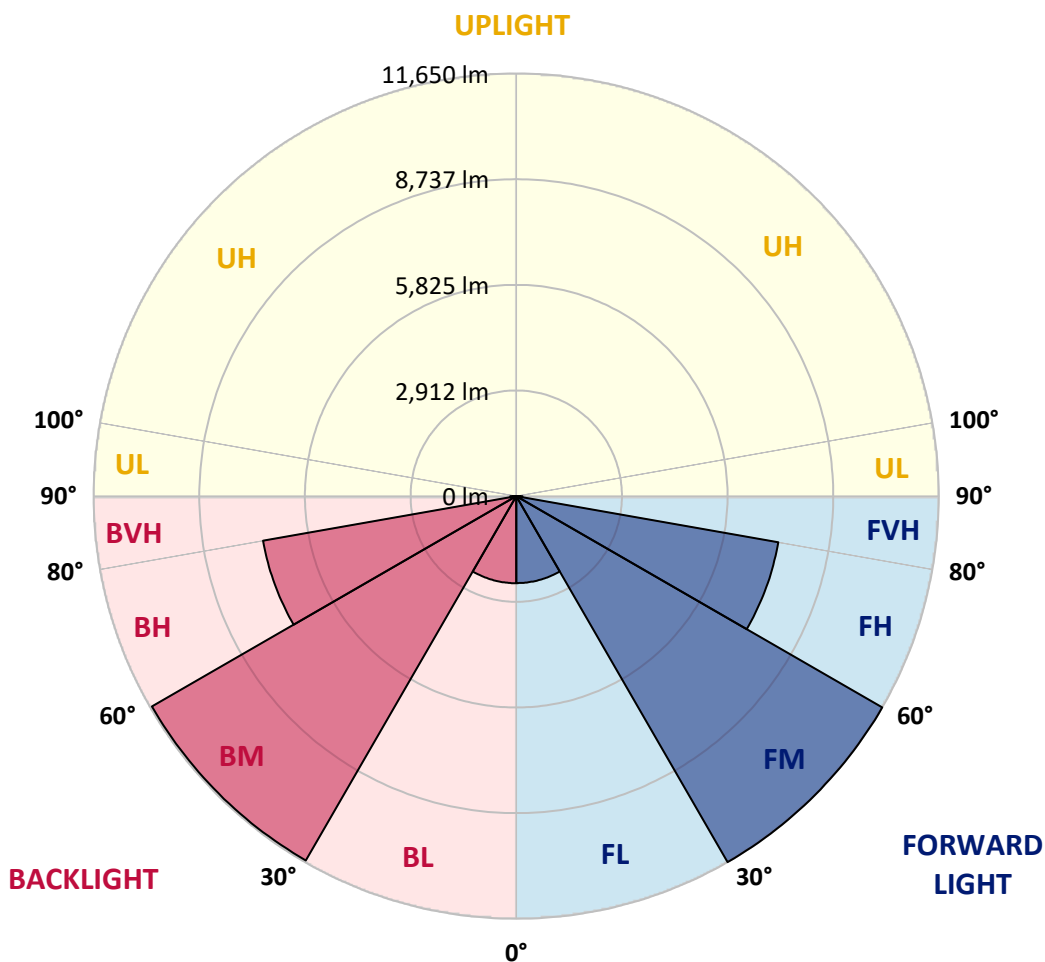


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.5	5.6			
FM (30°-60°)	11649.6	27.2			
FH (60°-80°)	7335.4	17.1			G3/7500
FVH (80°-90°)	169.5	0.4			G2/225
BL (0°-30°)	2400.1	5.6	B3/2500		
BM (30°-60°)	11597.6	27.1	B5		
BH (60°-80°)	7087.5	16.6	B5		G5
BVH (80°-90°)	162.3	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°	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6
2.5°	4354.9	4354.9	4350.3	4373.4	4396.5	4405.7	4424.1	4428.8	4456.4	4433.4	4479.5
5°	4341.1	4336.5	4373.4	4428.8	4428.8	4488.7	4525.6	4576.4	4590.2	4617.9	4627.1
7.5°	4438.0	4428.8	4410.3	4470.3	4521.0	4613.3	4664.0	4751.7	4784.0	4820.9	4862.4
10°	4498.0	4498.0	4479.5	4585.6	4631.7	4756.3	4867.0	4954.7	5079.2	5120.8	5125.4
12.5°	4507.2	4521.0	4576.4	4714.8	4844.0	5005.4	5088.5	5254.5	5379.1	5457.5	5485.2
15°	4645.6	4617.9	4677.9	4867.0	5056.2	5199.2	5346.8	5466.8	5646.7	5748.2	5812.7
17.5°	4770.1	4742.5	4853.2	5079.2	5273.0	5494.4	5623.6	5752.8	5881.9	5974.2	5978.8
20°	4968.5	4991.6	5088.5	5333.0	5586.7	5780.5	5928.1	5951.1	6015.7	6149.5	6126.5
22.5°	5213.0	5194.6	5397.6	5665.1	5941.9	6103.4	6186.4	6126.5	6094.2	6237.2	6269.5
25°	5457.5	5512.9	5697.4	5946.5	6278.7	6495.5	6518.6	6352.5	6232.6	6283.3	6269.5
27.5°	5831.2	5840.4	6034.2	6329.4	6666.2	6855.4	6841.5	6606.2	6375.6	6380.2	6389.4
30°	6311.0	6264.9	6477.1	6744.6	7076.8	7247.5	7270.5	6933.8	6624.7	6532.4	6555.5
32.5°	6772.3	6827.7	7012.2	7316.7	7561.2	7658.1	7607.3	7307.5	6906.1	6781.5	6795.4
35°	7362.8	7353.6	7607.3	7865.7	8050.2	8068.6	8027.1	7588.9	7210.6	7049.1	6984.5
37.5°	7994.8	8077.9	8244.0	8456.2	8649.9	8659.1	8433.1	8082.5	7616.5	7349.0	7427.4
40°	8700.7	8792.9	8912.9	9222.0	9365.0	9217.4	8986.7	8511.5	8027.1	7791.9	7828.8
42.5°	9323.5	9365.0	9609.5	9973.9	10043.1	9978.6	9637.2	9060.5	8497.7	8239.3	8257.8
45°	9895.5	9950.9	10269.2	10596.7	10758.2	10647.5	10250.7	9701.8	9046.7	8825.2	8737.6
47.5°	10421.4	10532.1	10841.2	11178.0	11427.1	11436.4	10947.3	10283.0	9591.0	9300.4	9295.8
50°	10776.7	10938.1	11242.6	11625.5	11989.9	12133.0	11643.9	10928.9	10186.1	9877.1	9844.8
52.5°	10970.4	11136.5	11441.0	12036.1	12442.0	12663.5	12432.8	11533.2	10882.8	10559.8	10509.1
55°	10735.1	10845.8	11344.1	12179.1	12806.5	13170.9	13018.7	12368.2	11574.7	11311.8	11357.9
57.5°	9734.0	9964.7	10578.3	11620.9	12797.3	13692.3	13678.4	13157.1	12372.8	12123.7	12133.0
60°	8013.3	8207.0	8963.6	10421.4	12280.6	13904.5	14393.5	13922.9	13267.8	12977.2	12968.0
62.5°	5655.9	5900.4	6776.9	8368.5	10758.2	13609.2	15214.6	14887.1	14144.4	13932.1	14010.6
65°	3164.7	3312.3	4124.3	5563.6	8197.8	11985.3	15362.3	15888.2	15034.7	14711.8	14725.6
67.5°	1693.1	1748.4	2126.7	2920.2	5014.6	9240.4	13872.2	16464.8	15998.9	15440.7	15353.0
70°	1162.5	1181.0	1277.9	1494.7	2371.2	5526.7	10462.9	15436.1	16723.2	15962.0	16109.6
72.5°	982.6	973.4	996.5	1019.5	1241.0	2472.7	6140.3	11879.2	15786.7	15500.7	15445.3
75°	853.5	848.8	858.1	835.0	862.7	1088.7	2717.2	7404.3	11556.3	12898.8	13106.4
77.5°	705.8	710.4	715.1	692.0	682.8	719.7	1093.4	3252.4	5688.2	6278.7	6772.3
80°	535.1	544.4	581.3	558.2	521.3	525.9	645.9	1088.7	1633.1	1480.9	1527.0
82.5°	364.5	369.1	447.5	419.8	392.1	355.2	415.2	562.8	636.6	484.4	424.4
85°	258.3	253.7	290.6	267.6	249.1	179.9	249.1	318.3	382.9	239.9	216.8
87.5°	60.0	60.0	119.9	96.9	92.3	73.8	96.9	124.6	166.1	106.1	96.9
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°	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6	4382.6
2.5°	4465.7	4424.1	4424.1	4414.9	4378.0	4368.8	4336.5	4345.7	4322.7	4299.6
5°	4622.5	4567.2	4567.2	4488.7	4414.9	4405.7	4368.8	4368.8	4331.9	4341.1
7.5°	4839.3	4788.6	4705.6	4636.4	4534.9	4493.3	4424.1	4414.9	4405.7	4387.2
10°	5097.7	5033.1	4950.1	4807.1	4724.0	4645.6	4576.4	4479.5	4456.4	4461.1
12.5°	5448.3	5346.8	5166.9	5042.3	4936.2	4834.7	4733.2	4590.2	4557.9	4571.8
15°	5697.4	5568.2	5388.3	5342.2	5199.2	5074.6	4908.5	4747.1	4691.7	4677.9
17.5°	5900.4	5794.3	5688.2	5619.0	5503.7	5351.4	5120.8	4936.2	4811.7	4797.8
20°	6066.5	5928.1	5905.0	5946.5	5803.5	5702.0	5420.6	5194.6	5028.5	4959.3
22.5°	6168.0	6080.3	6144.9	6181.8	6172.6	6001.9	5711.3	5448.3	5240.7	5176.1
25°	6278.7	6177.2	6407.9	6532.4	6564.7	6283.3	6057.3	5711.3	5508.3	5466.8
27.5°	6334.1	6371.0	6638.5	6901.5	6878.4	6661.6	6357.1	6048.0	5886.6	5812.7
30°	6495.5	6555.5	6961.5	7256.7	7261.3	7049.1	6818.4	6467.8	6287.9	6255.6
32.5°	6786.2	6860.0	7293.6	7607.3	7662.7	7501.2	7270.5	7053.7	6869.2	6795.4
35°	7007.6	7196.7	7685.7	7971.8	8119.4	8022.5	7893.3	7667.3	7473.5	7408.9
37.5°	7325.9	7588.9	8059.4	8446.9	8613.0	8603.8	8506.9	8262.4	8100.9	8045.6
40°	7782.6	8045.6	8474.6	8986.7	9295.8	9281.9	9226.6	9037.4	8797.5	8769.9
42.5°	8267.0	8483.8	9042.1	9627.9	10070.8	10024.7	9877.1	9655.6	9489.5	9452.6
45°	8737.6	9074.3	9591.0	10343.0	10675.2	10790.5	10615.2	10236.9	10047.8	10024.7
47.5°	9328.1	9595.6	10241.5	10915.0	11408.7	11427.1	11127.3	10776.7	10430.7	10504.5
50°	9854.0	10209.2	10864.3	11602.4	12192.9	11980.7	11597.8	11159.6	10910.4	10813.6
52.5°	10416.8	10850.5	11611.7	12363.6	12691.2	12479.0	11856.2	11367.2	10988.9	10947.3
55°	11238.0	11464.0	12460.5	13037.2	13143.3	12695.8	11777.7	11085.7	10596.7	10476.8
57.5°	12073.0	12335.9	13207.9	13706.1	13595.4	12575.8	11270.3	10200.0	9558.7	9388.0
60°	12917.2	13240.1	13973.7	14430.4	13858.3	11750.1	9835.5	8456.2	7708.8	7556.6
62.5°	13858.3	14278.1	14933.2	15094.7	13078.7	10116.9	7805.7	6103.4	5346.8	5093.1
65°	14693.3	15122.4	15929.7	14956.3	11422.5	7547.3	5046.9	3487.6	2929.4	2726.5
67.5°	15380.7	15865.1	16261.9	13235.5	8363.9	4419.5	2629.6	1836.1	1628.5	1554.7
70°	15925.1	16732.4	14877.9	9729.4	4779.4	2154.4	1420.9	1208.7	1181.0	1162.5
72.5°	15449.9	15343.8	11108.8	5614.4	2094.4	1185.6	1028.8	996.5	991.9	996.5
75°	12635.8	11270.3	6643.1	2440.4	1051.8	858.1	853.5	839.6	862.7	862.7
77.5°	6131.1	5360.6	2777.2	1047.2	692.0	673.5	696.6	696.6	696.6	696.6
80°	1420.9	1573.1	991.9	636.6	502.8	502.8	553.6	558.2	535.1	525.9
82.5°	484.4	645.9	544.4	401.4	332.2	373.7	419.8	429.0	355.2	359.8
85°	239.9	378.3	295.3	230.7	170.7	230.7	272.2	286.0	244.5	235.3
87.5°	110.7	166.1	110.7	78.4	60.0	83.0	78.4	64.6	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)