

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: P481572

Luminaire Tested: **IFLD-M-SA4D-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

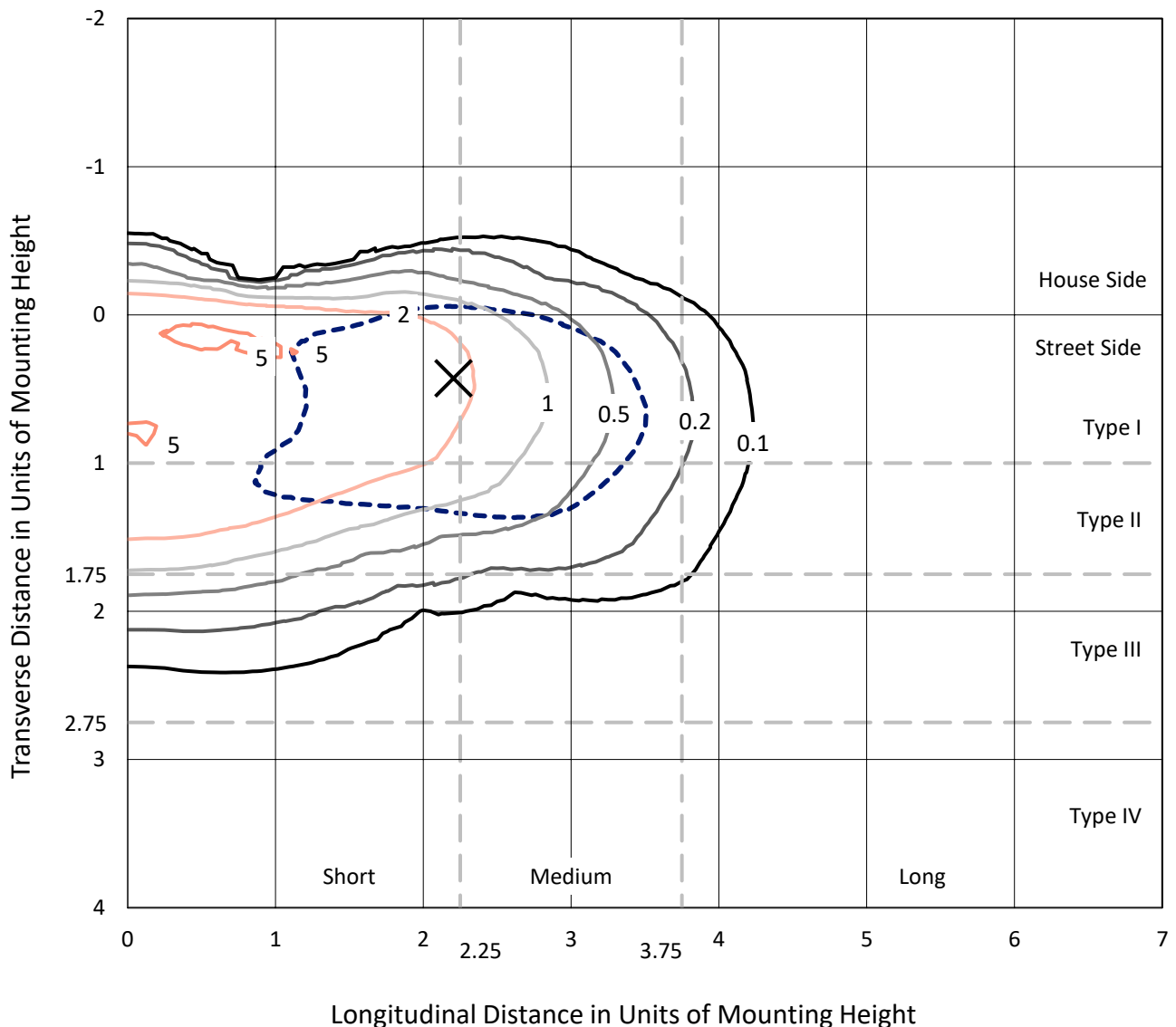
Lumens per Lamp: N/A
Luminaire Lumens: 18840.8 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P481572
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

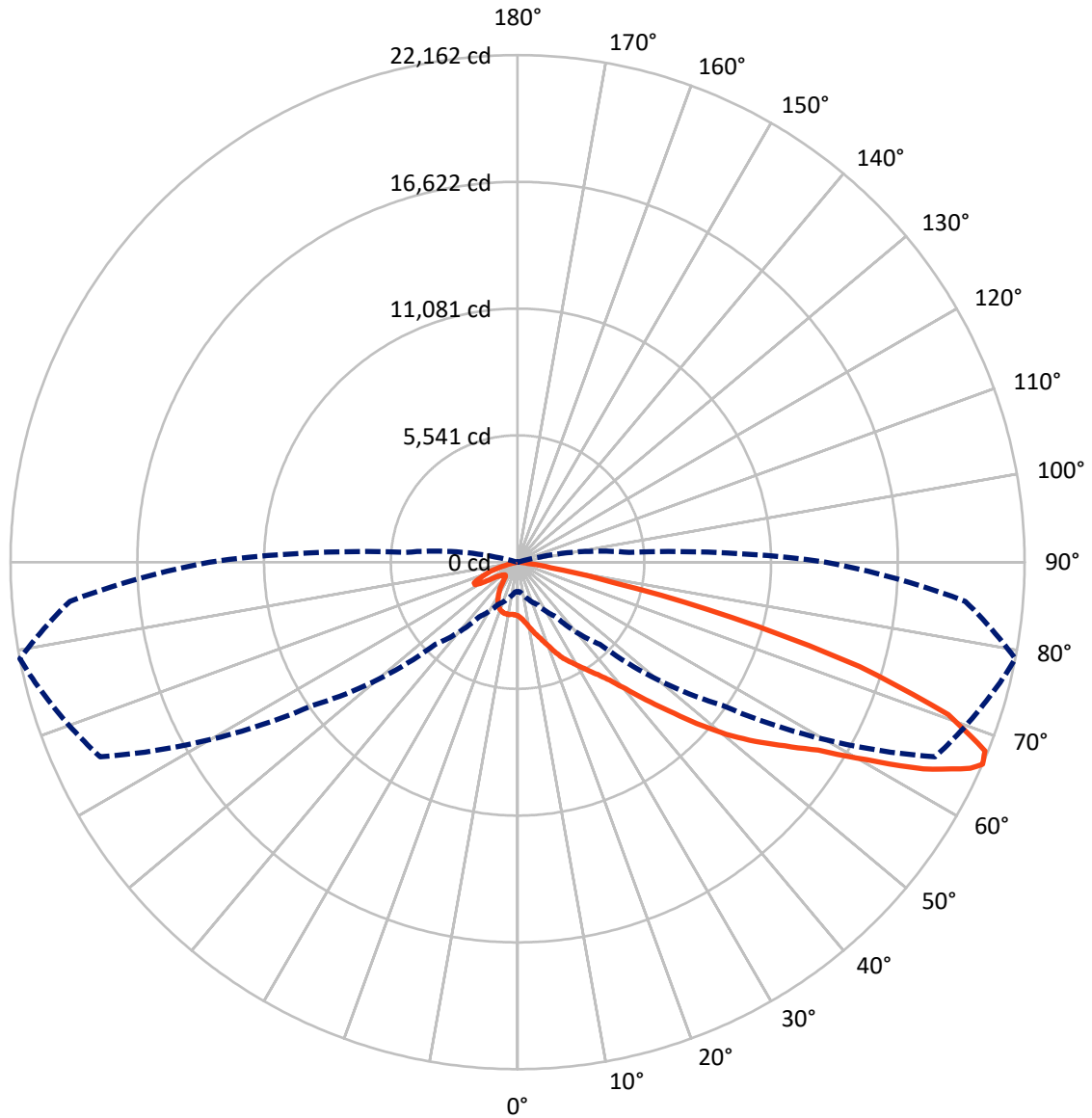
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481572
CATALOG NUMBER: IFLD-M-SA4D-727-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481572
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T2-HSS

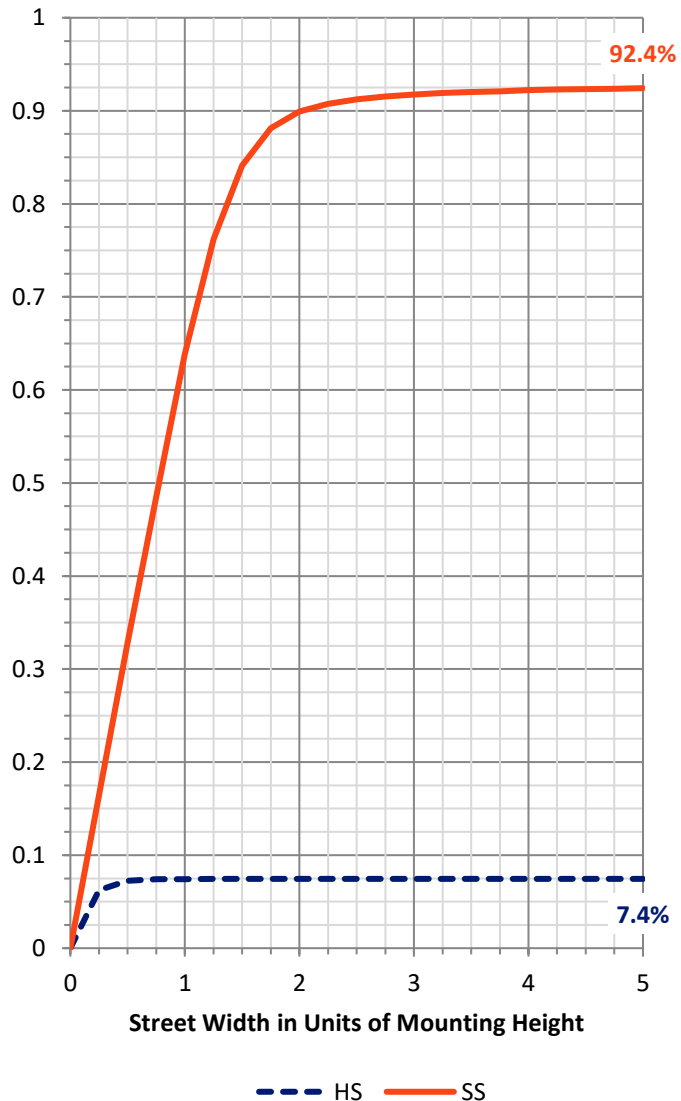
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1414.7	0.0	1414.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17426.1	0.0	17426.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	18840.8	0.0	18840.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	1.2
10°-20°	610.1	3.2
20°-30°	1013.5	5.4
30°-40°	1740.8	9.2
40°-50°	3153.8	16.7
50°-60°	4985.2	26.5
60°-70°	5072.8	26.9
70°-80°	1934.5	10.3
80°-90°	108.5	0.6
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°	18840.8	100.0
0°-180°	18840.8	100.0

Coefficient of Utilization



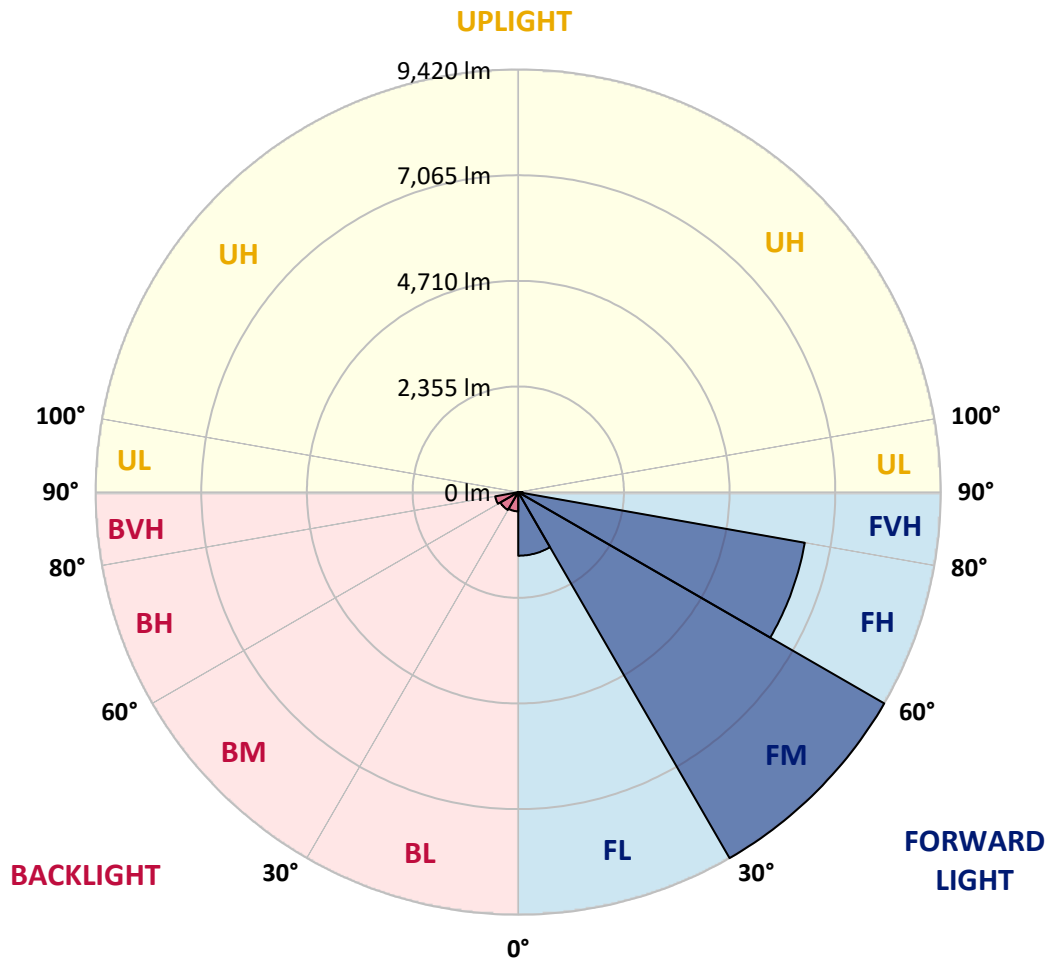
REPORT NUMBER: P481572
 CATALOG NUMBER: IFLD-M-SA4D-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.5	7.5			
FM (30°-60°)	9420.0	50.0			
FH (60°-80°)	6485.8	34.4			G3/7500
FVH (80°-90°)	102.9	0.5			G2/225
BL (0°-30°)	427.8	2.3	B1/500		
BM (30°-60°)	459.8	2.4	B1/1000		
BH (60°-80°)	521.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.5	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-G3

Type II Short





REPORT NUMBER: P481572

CATALOG NUMBER: IFLD-M-SA4D-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0
2.5°	2654.8	2651.9	2640.3	2620.0	2593.8	2585.1	2547.3	2495.1	2466.0	2434.1	2419.5
5°	2837.8	2823.3	2858.1	2843.6	2849.4	2779.7	2733.2	2695.5	2585.1	2541.5	2471.8
7.5°	2878.5	2893.0	2890.1	2913.3	2936.6	2962.7	2930.8	2875.6	2765.2	2701.3	2625.8
10°	2878.5	2872.7	2895.9	2927.8	2994.7	3052.7	3139.9	3067.3	2983.0	2907.5	2771.0
12.5°	2826.2	2817.5	2840.7	2907.5	3026.6	3145.7	3241.5	3311.3	3192.2	3131.2	2954.0
15°	2666.4	2657.7	2753.6	2872.7	3029.5	3224.1	3424.5	3537.8	3456.5	3360.6	3163.1
17.5°	2468.9	2480.5	2582.2	2779.7	3029.5	3261.9	3517.5	3764.4	3752.8	3630.8	3424.5
20°	2402.1	2410.8	2512.5	2654.8	2939.5	3288.0	3662.7	4011.3	4081.0	3935.7	3665.6
22.5°	2529.9	2521.2	2529.9	2617.1	2878.5	3264.8	3758.6	4293.0	4417.9	4304.6	3982.2
25°	2965.6	2959.8	2887.2	2753.6	2843.6	3212.5	3807.9	4478.9	4766.5	4661.9	4237.8
27.5°	3604.6	3581.4	3468.1	3189.3	3006.3	3244.5	3889.3	4659.0	5071.5	4952.4	4467.3
30°	4290.1	4234.9	4086.8	3738.2	3427.4	3363.5	3935.7	4792.6	5411.3	5260.3	4667.7
32.5°	4763.6	4836.2	4789.7	4435.3	3959.0	3639.5	4011.3	4961.1	5725.0	5626.2	5010.5
35°	5495.5	5579.8	5385.1	5071.5	4592.2	4078.1	4171.0	5097.6	6207.2	6041.6	5330.0
37.5°	6419.2	6483.1	6343.7	5748.2	5242.8	4618.3	4499.2	5382.2	6622.5	6544.1	5739.5
40°	6883.9	7191.8	6994.3	6457.0	5913.8	5373.5	5042.4	5716.3	7345.8	7281.9	6305.9
42.5°	7525.8	7679.8	7578.1	7180.2	6613.8	6181.0	5713.4	6366.9	8223.0	8223.0	7072.7
45°	8205.5	8211.3	8205.5	7880.2	7377.7	7154.1	6619.6	7183.1	9167.0	9271.5	7990.6
47.5°	8763.2	8937.5	8923.0	8728.4	8339.1	8254.9	7525.8	8112.6	10352.0	10535.0	8885.2
50°	9050.8	9245.4	9303.5	9405.1	9387.7	9564.9	8516.3	9190.2	11374.5	11824.7	10035.4
52.5°	8972.3	8986.9	9344.1	9745.0	10384.0	10880.7	9710.1	10413.0	12571.2	13015.6	10924.2
55°	8330.4	8275.2	9010.1	9469.0	10790.6	11685.3	11362.8	11938.0	13503.5	14180.3	11842.1
57.5°	6921.7	6936.2	7615.9	8548.3	10488.6	12004.8	13128.8	13930.5	14810.6	15493.2	13131.7
60°	4778.1	4760.7	5521.7	6599.3	8713.8	11409.3	14145.5	16512.7	16559.2	17526.4	15446.7
62.5°	2686.8	2692.6	3270.6	4191.4	6096.8	9323.8	14096.1	19254.7	19057.2	19905.3	18078.3
65°	1522.0	1559.8	1957.7	2483.4	3651.1	6259.4	12123.8	20346.8	20982.9	21738.1	19675.8
66°	1286.7	1312.9	1652.7	2050.7	2913.3	5077.3	10912.6	20134.8	21587.1	22162.2	19643.9
67.5°	996.3	1031.1	1315.8	1626.6	2137.8	3514.6	8783.5	19080.4	21697.4	22034.4	19089.1
70°	682.6	705.8	923.7	1234.5	1461.0	1798.0	5251.5	15774.9	19687.5	19972.1	16591.1
72.5°	479.3	490.9	647.7	935.3	1124.1	1028.2	2605.4	11223.4	15066.2	15621.0	12905.2
75°	345.6	357.3	444.4	671.0	877.2	673.9	1193.8	7168.6	9239.6	9675.3	7772.7
77.5°	249.8	264.3	302.1	432.8	636.1	473.5	586.7	3744.0	4356.9	4281.4	3343.2
80°	151.0	165.6	223.7	278.8	464.7	334.0	322.4	1562.7	1545.3	1466.8	1051.5
82.5°	69.7	81.3	119.1	188.8	325.3	232.4	153.9	557.7	488.0	447.3	296.3
85°	20.3	26.1	69.7	142.3	165.6	113.3	92.9	191.7	200.4	171.4	98.8
87.5°	0.0	2.9	32.0	34.9	49.4	37.8	34.9	49.4	92.9	75.5	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481572

CATALOG NUMBER: IFLD-M-SA4D-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0	2344.0
2.5°	2367.3	2346.9	2297.5	2222.0	2155.2	2120.4	2071.0	2027.4	2004.2	2001.3	1998.4
5°	2425.4	2370.2	2251.1	2114.6	2012.9	1902.5	1827.0	1771.8	1719.5	1670.2	1699.2
7.5°	2503.8	2416.6	2222.0	2044.8	1824.1	1681.8	1548.2	1469.7	1423.3	1379.7	1373.9
10°	2625.8	2515.4	2201.7	1882.2	1629.5	1420.4	1283.8	1170.6	1106.7	1031.1	1060.2
12.5°	2791.3	2593.8	2126.2	1734.1	1408.7	1188.0	993.4	810.4	708.7	630.3	633.2
15°	2956.9	2698.4	2056.5	1554.0	1208.3	917.9	633.2	508.3	479.3	461.8	467.6
17.5°	3119.6	2782.6	1949.0	1371.0	978.9	583.8	461.8	435.7	421.2	403.7	403.7
20°	3317.1	2837.8	1815.4	1202.5	673.9	432.8	395.0	377.6	354.4	331.1	334.0
22.5°	3508.8	2884.3	1661.4	987.6	453.1	374.7	331.1	307.9	287.6	264.3	264.3
25°	3700.5	2898.8	1461.0	708.7	366.0	299.2	258.5	226.6	206.2	185.9	188.8
27.5°	3831.2	2808.8	1272.2	453.1	293.4	226.6	180.1	153.9	136.5	116.2	116.2
30°	3906.7	2643.2	1068.9	319.5	220.8	153.9	107.5	81.3	63.9	49.4	46.5
32.5°	3982.2	2509.6	839.4	244.0	145.2	81.3	40.7	14.5	0.0	0.0	0.0
35°	4133.3	2358.5	563.5	136.5	49.4	2.9	0.0	0.0	0.0	0.0	0.0
37.5°	4229.1	2149.4	258.5	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4470.2	2044.8	63.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4862.3	1972.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5292.2	1943.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5864.4	2021.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6468.6	2233.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7130.8	2434.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7708.8	2675.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8771.9	3244.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10680.3	4362.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12829.7	5193.4	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13616.8	5173.1	55.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13477.4	4888.5	55.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12754.1	4342.4	49.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10953.3	3587.2	49.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8350.8	2794.2	46.5	11.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	5039.5	1487.2	37.8	14.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2007.1	522.8	29.0	11.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	543.2	156.8	17.4	11.6	8.7	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	142.3	58.1	14.5	11.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
85°	55.2	23.2	11.6	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0
87.5°	17.4	8.7	8.7	5.8	5.8	2.9	2.9	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)