

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: P481942

Luminaire Tested: **IFLD-S-SA3D-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

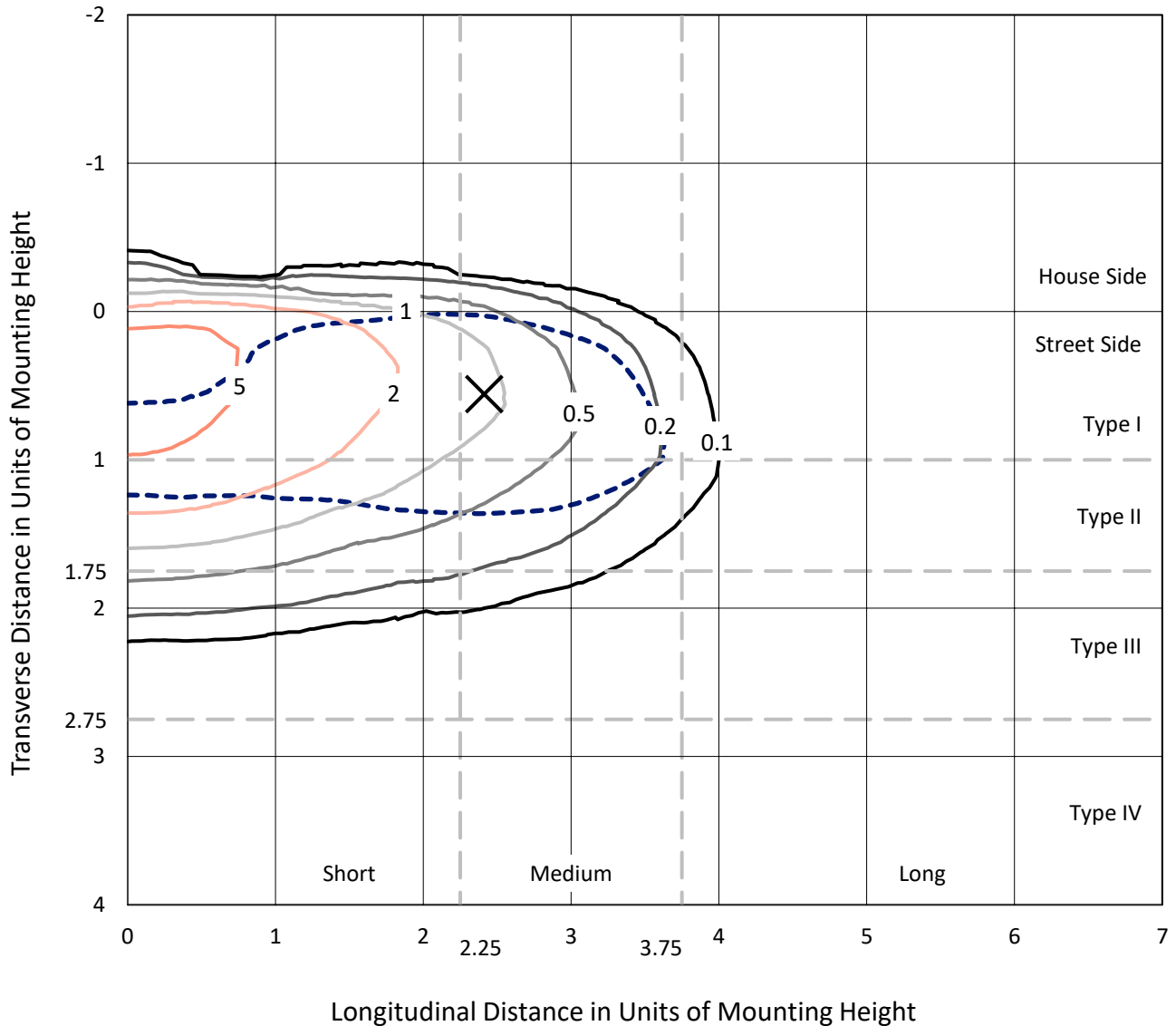
Lumens per Lamp: N/A
Luminaire Lumens: 15324.5 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
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

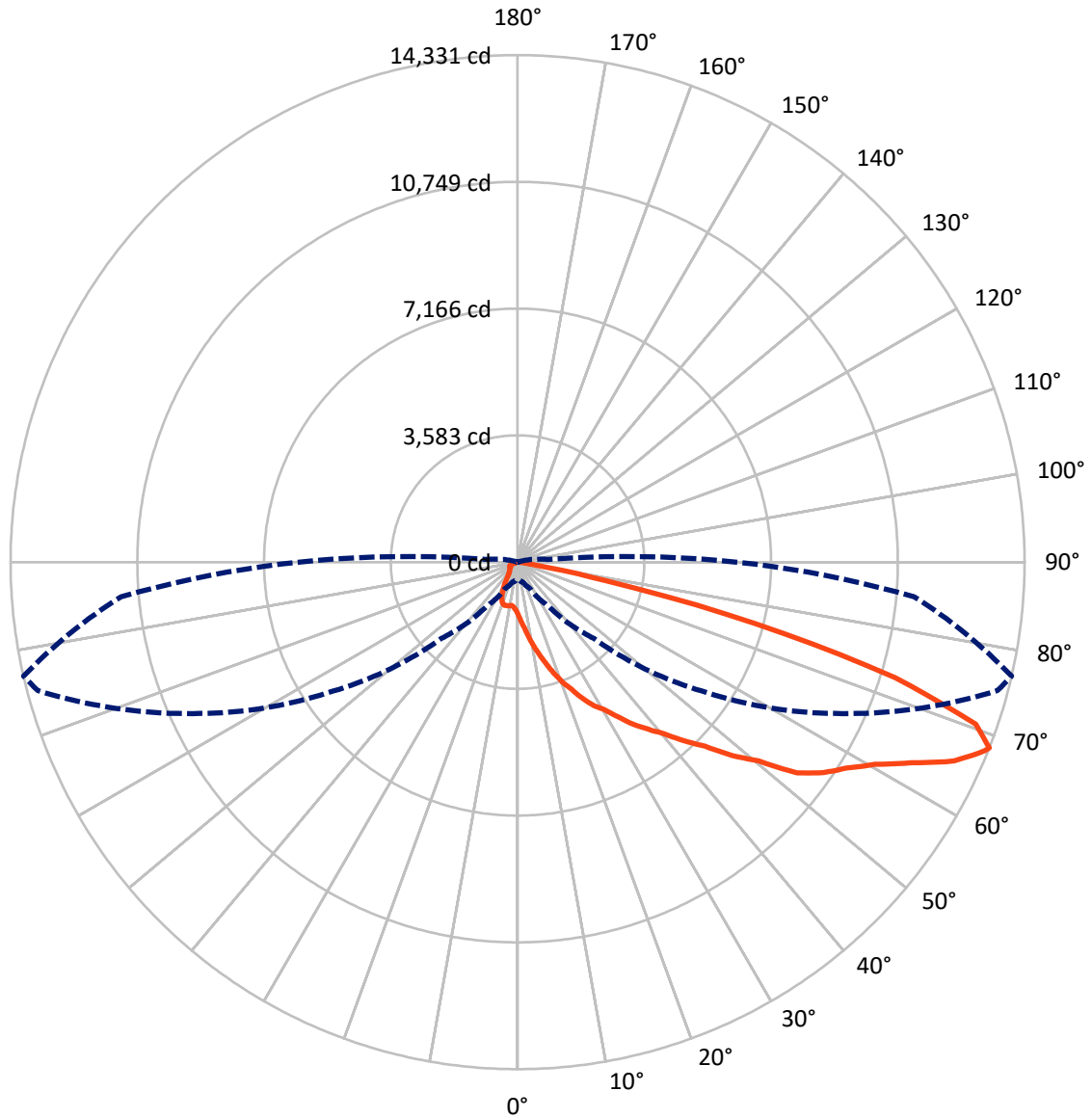
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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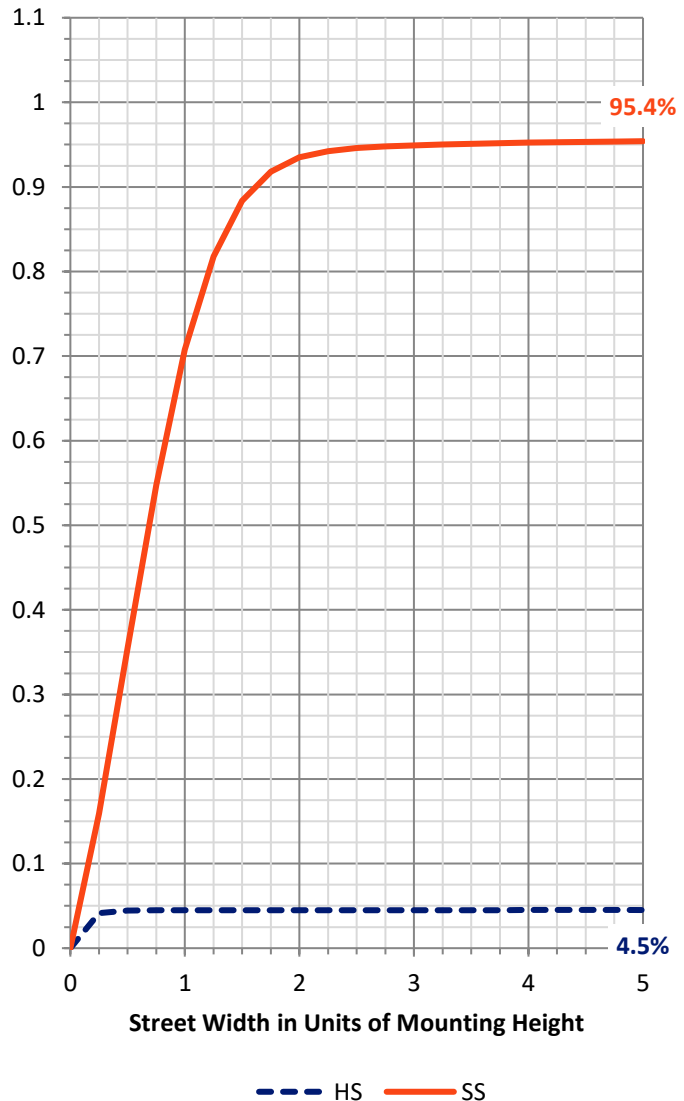
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.9	0.0	694.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	14629.5	0.0	14629.5
	% Fixture	95.5	0.0	95.5
Total	Lumens	15324.5	0.0	15324.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.1
10°-20°	632.2	4.1
20°-30°	1225.3	8.0
30°-40°	2136.1	13.9
40°-50°	3128.5	20.4
50°-60°	3675.5	24.0
60°-70°	3103.6	20.3
70°-80°	1203.0	7.9
80°-90°	48.9	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°	15324.5	100.0
0°-180°	15324.5	100.0

Coefficient of Utilization

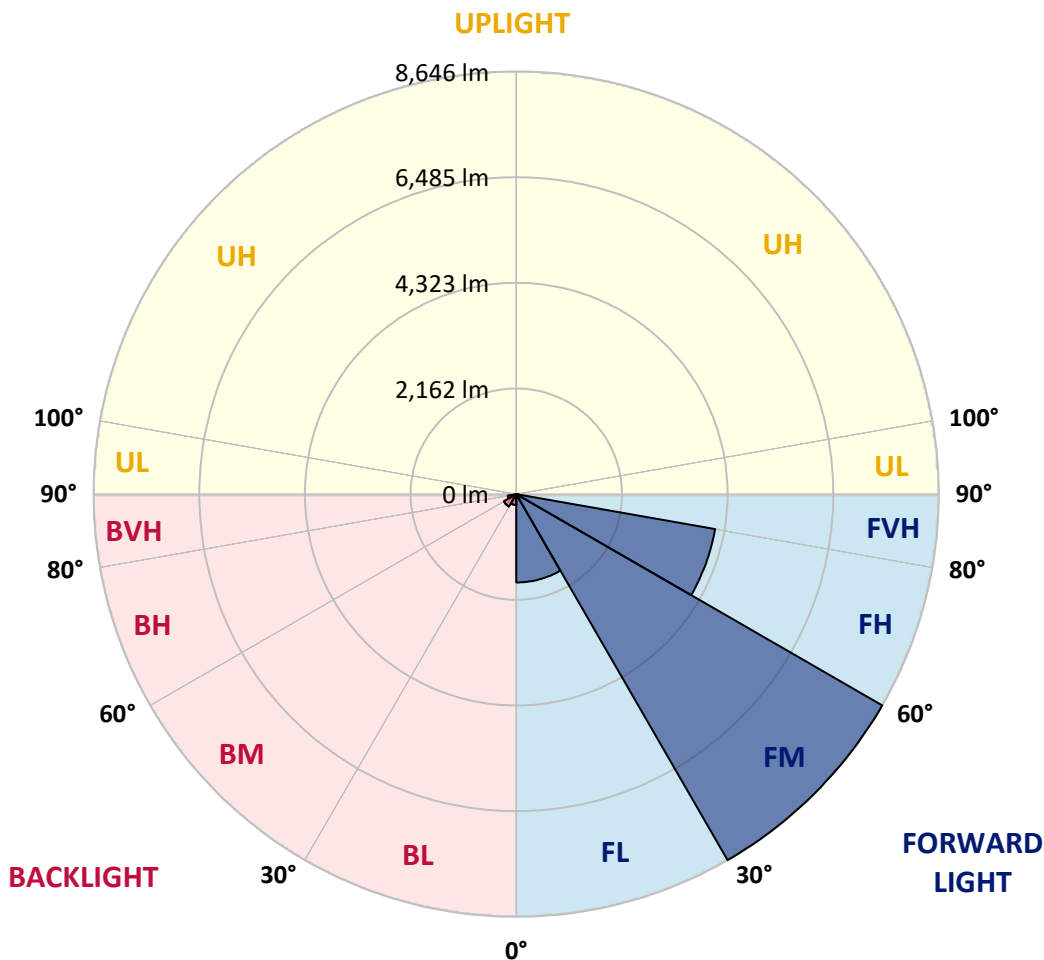


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.9	11.8			
FM (30°-60°)	8646.3	56.4			
FH (60°-80°)	4131.2	27.0			G2/5000
FVH (80°-90°)	45.1	0.3			G1/100
BL (0°-30°)	222.0	1.4	B1/500		
BM (30°-60°)	293.7	1.9	B1/1000		
BH (60°-80°)	175.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.8	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3
2.5°	2229.5	2187.3	2143.0	2130.3	2047.9	1955.0	1868.5	1784.0	1642.6	1644.7	1547.6
5°	2873.5	2820.7	2784.8	2776.3	2647.6	2487.1	2356.2	2117.6	1883.3	1830.5	1653.1
7.5°	3403.4	3386.5	3333.7	3289.4	3194.4	2998.0	2843.9	2501.9	2145.1	2085.9	1781.9
10°	3724.3	3749.6	3772.9	3715.9	3642.0	3500.5	3289.4	2919.9	2442.8	2368.9	1948.7
12.5°	4066.3	4024.1	4038.9	4085.3	3988.2	3956.5	3694.7	3350.6	2791.1	2649.7	2159.8
15°	4155.0	4171.9	4207.8	4342.9	4408.4	4317.6	4091.7	3699.0	3152.1	2955.8	2356.2
17.5°	4214.1	4205.7	4250.0	4452.7	4551.9	4638.5	4497.0	4087.4	3466.7	3291.5	2601.1
20°	4288.0	4241.6	4338.7	4467.5	4697.6	4879.2	4872.8	4478.0	3796.1	3610.3	2843.9
22.5°	4562.5	4526.6	4604.7	4617.4	4777.8	5031.2	5092.4	4796.8	4133.9	3905.9	3105.7
25°	5069.2	5134.6	5041.7	4961.5	5010.1	5176.9	5221.2	5079.7	4473.8	4264.8	3367.5
27.5°	5810.3	5801.8	5618.1	5514.7	5398.6	5377.4	5409.1	5343.7	4741.9	4592.0	3582.8
30°	6606.2	6536.5	6367.6	6118.5	5863.0	5704.7	5660.4	5592.8	5056.5	4839.1	3796.1
32.5°	7239.6	7277.6	7089.7	6764.6	6340.2	6126.9	5913.7	5839.8	5402.8	5210.6	4041.0
35°	7822.3	7771.6	7621.7	7347.3	6967.2	6623.1	6289.5	6131.2	5818.7	5628.7	4311.2
37.5°	8253.0	8316.3	8031.3	7769.5	7391.6	7106.6	6779.3	6433.1	6247.3	5993.9	4640.6
40°	8660.5	8561.3	8369.1	8128.4	7778.0	7560.5	7345.2	6804.7	6703.3	6376.1	5012.2
42.5°	8588.7	8595.0	8489.5	8295.2	8041.9	7917.3	7843.4	7256.5	7117.1	6908.1	5375.3
45°	8295.2	8320.6	8356.5	8261.5	8282.6	8158.0	8356.5	7775.9	7638.6	7416.9	5793.4
47.5°	7972.2	8014.4	8006.0	8179.1	8375.5	8417.7	8913.8	8352.2	8293.1	8170.7	6371.9
50°	7435.9	7452.8	7615.4	7930.0	8198.1	8639.4	9331.9	8981.4	9072.2	8831.5	7060.1
52.5°	6519.6	6580.9	6998.9	7448.6	7989.1	8751.3	9614.8	9916.7	10146.8	9899.8	7721.0
55°	5360.6	5445.0	5856.7	6699.1	7490.8	8582.4	9872.4	10410.7	10877.3	10503.6	8122.1
57.5°	4313.4	4321.8	4691.3	5561.1	6783.6	8250.9	10003.3	10651.4	11278.5	10978.7	8611.9
60°	3287.3	3253.5	3585.0	4338.7	5592.8	7435.9	9676.0	10773.9	11778.9	11605.7	9201.0
62.5°	2115.5	2062.7	2423.8	3158.5	4368.2	6078.4	9021.5	10776.0	12560.0	12494.6	10186.9
65°	1047.2	1011.3	1321.7	1936.0	3023.4	4649.0	8088.3	10735.9	13514.3	13556.6	11147.6
67.5°	553.2	565.8	665.1	981.7	1743.9	3285.2	6682.2	10265.1	14002.0	14238.5	11379.8
68°	508.8	513.0	591.2	817.1	1513.8	3046.6	6348.6	10127.8	14040.0	14331.4	11251.0
70°	413.8	420.1	447.6	513.0	819.2	1982.5	4898.2	8962.4	13467.9	13733.9	10184.8
72.5°	329.4	348.4	365.3	392.7	481.4	1040.9	3046.6	6984.1	11126.5	11156.0	7927.9
75°	251.2	266.0	299.8	323.0	375.8	572.2	1450.5	4258.5	7300.8	6941.9	4670.2
77.5°	194.2	206.9	221.7	253.4	314.6	386.4	443.4	1807.3	3101.5	2552.5	1319.6
80°	116.1	124.6	173.1	198.5	274.5	261.8	175.2	502.5	629.2	496.2	240.7
82.5°	67.6	73.9	99.2	152.0	192.1	141.5	103.5	156.2	154.1	135.1	80.2
85°	2.1	4.2	54.9	90.8	67.6	38.0	63.3	65.4	54.9	50.7	35.9
87.5°	0.0	2.1	14.8	12.7	14.8	8.4	12.7	16.9	21.1	19.0	14.8
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°	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3	1467.3
2.5°	1482.1	1435.7	1332.2	1254.1	1169.7	1119.0	1068.3	1036.6	1019.8	1009.2	1017.6
5°	1520.1	1423.0	1256.2	1108.4	1011.3	945.9	880.4	846.6	815.0	798.1	808.6
7.5°	1604.6	1458.9	1182.3	1021.9	907.9	806.5	724.2	658.7	620.7	586.9	593.3
10°	1708.0	1480.0	1184.4	971.2	806.5	646.1	529.9	447.6	401.1	371.6	369.5
12.5°	1813.6	1562.4	1192.9	920.5	681.9	485.6	348.4	287.1	259.7	244.9	244.9
15°	1974.1	1636.2	1171.8	827.6	517.3	316.7	238.6	217.5	206.9	194.2	196.3
17.5°	2113.4	1754.5	1161.2	688.3	354.7	228.0	198.5	175.2	164.7	152.0	152.0
20°	2301.3	1828.4	1104.2	532.0	244.9	190.0	160.5	139.3	122.5	111.9	114.0
22.5°	2472.3	1885.4	1002.9	363.1	187.9	149.9	118.2	97.1	82.3	69.7	71.8
25°	2658.1	1942.4	855.1	223.8	133.0	92.9	63.3	46.4	31.7	23.2	23.2
27.5°	2791.1	1959.3	662.9	133.0	80.2	42.2	14.8	2.1	0.0	0.0	0.0
30°	2926.2	1965.6	458.1	71.8	31.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3080.4	1963.5	287.1	38.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	3198.6	1927.6	137.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3378.1	1874.8	42.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3582.8	1779.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3766.5	1682.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3975.5	1562.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4342.9	1511.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4822.2	1471.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5117.8	1353.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5271.9	1230.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5499.9	1171.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5837.7	1176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6365.5	1235.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6656.9	1176.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6409.9	941.6	40.1	10.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	6196.6	865.6	40.1	10.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	5122.0	563.7	38.0	10.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3730.6	312.5	31.7	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2170.4	156.2	23.2	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	565.8	78.1	19.0	10.6	6.3	2.1	0.0	0.0	0.0	0.0	0.0
80°	111.9	50.7	16.9	12.7	8.4	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	52.8	35.9	16.9	12.7	10.6	6.3	2.1	0.0	0.0	0.0	0.0
85°	27.4	16.9	16.9	12.7	12.7	8.4	4.2	0.0	0.0	0.0	0.0
87.5°	12.7	6.3	6.3	6.3	6.3	4.2	2.1	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)