

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: P596030

Luminaire Tested: **PMM-SA4A-AMB-U-T4W**

Issue Date: 4/29/2022

Test Information

Test Method: LM-79-08
Report Number: P596030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-400-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 4/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-AMB-U-T4W
Description: POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH
AND TYPE IV WIDE OPTICS.
Light Source: (64) 1549K CCT, -21.5 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3009.9 lumens
Efficiency: N/A
Efficacy: 38.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

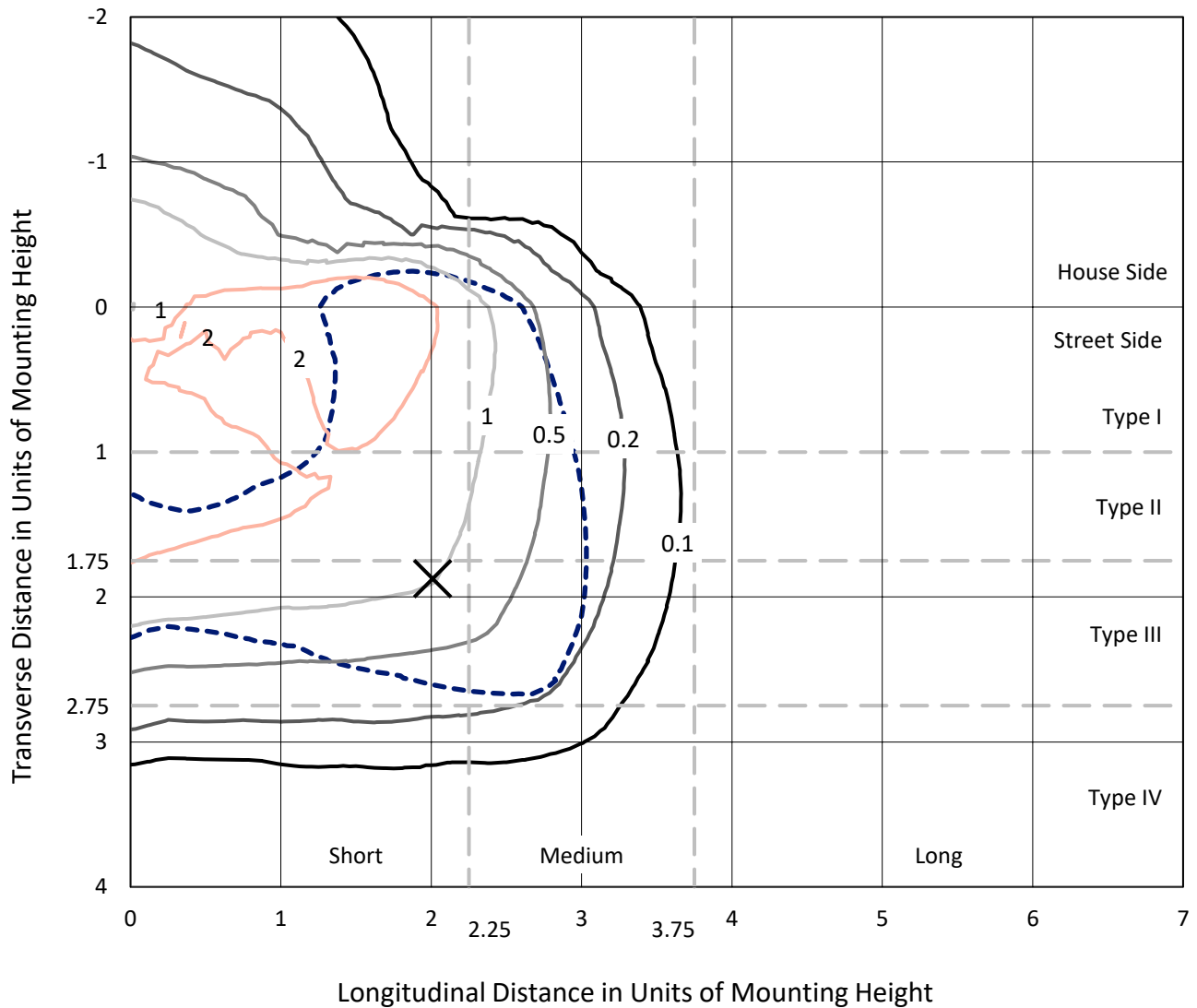
Input Watts (W): 79
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

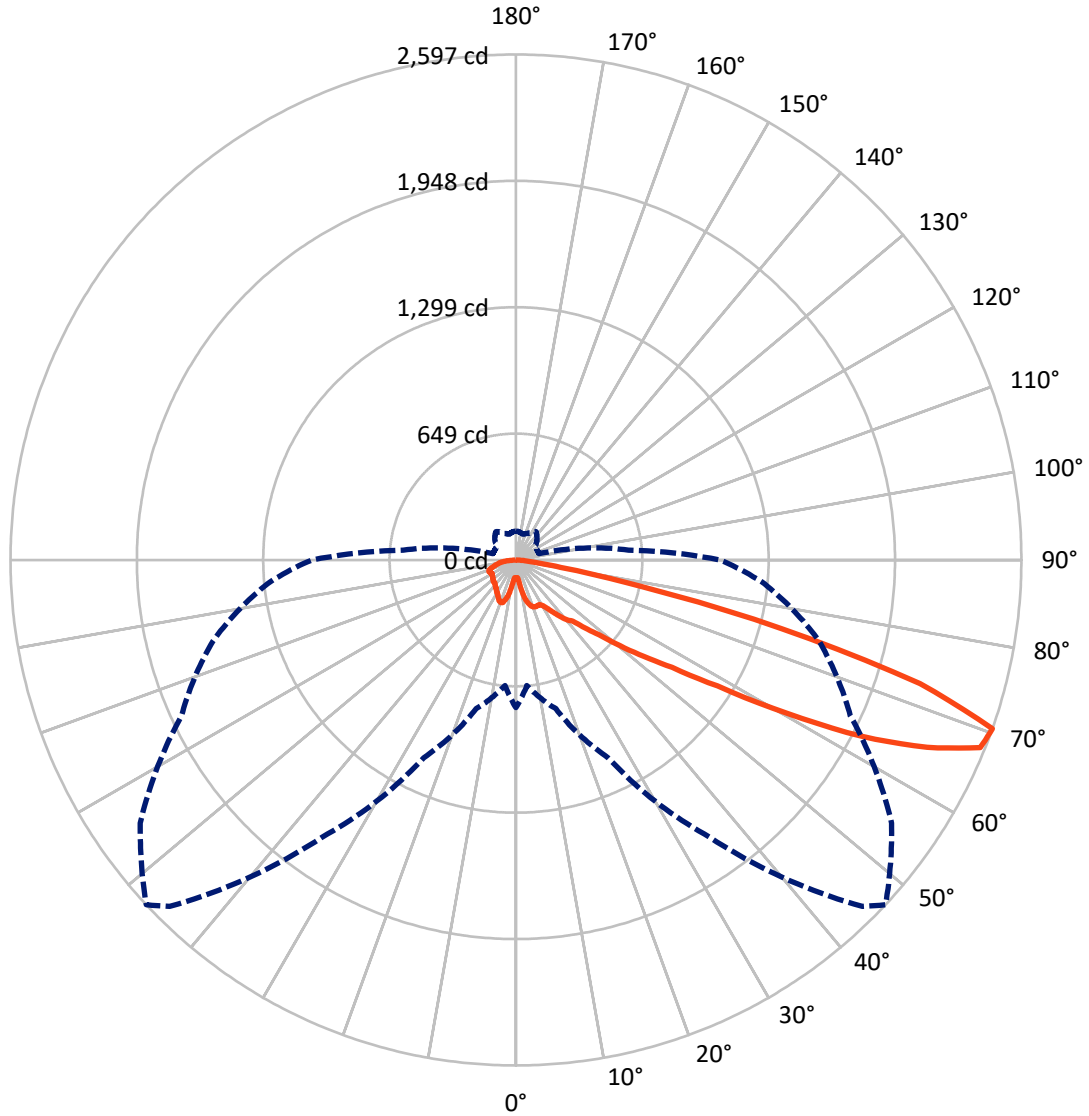
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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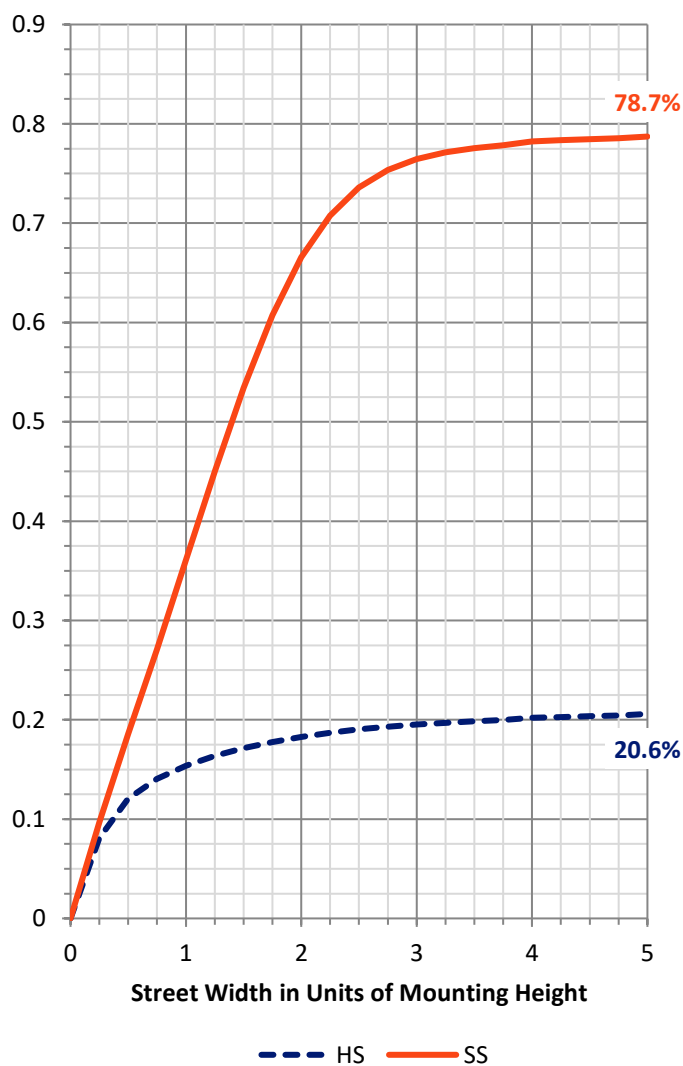
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.8	0.0	631.8
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	2378.1	0.0	2378.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	3009.9	0.0	3009.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.4
10°-20°	60.1	2.0
20°-30°	117.6	3.9
30°-40°	200.6	6.7
40°-50°	344.4	11.4
50°-60°	712.5	23.7
60°-70°	1061.9	35.3
70°-80°	449.4	14.9
80°-90°	51.1	1.7
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°	3009.9	100.0
0°-180°	3009.9	100.0

Coefficient of Utilization



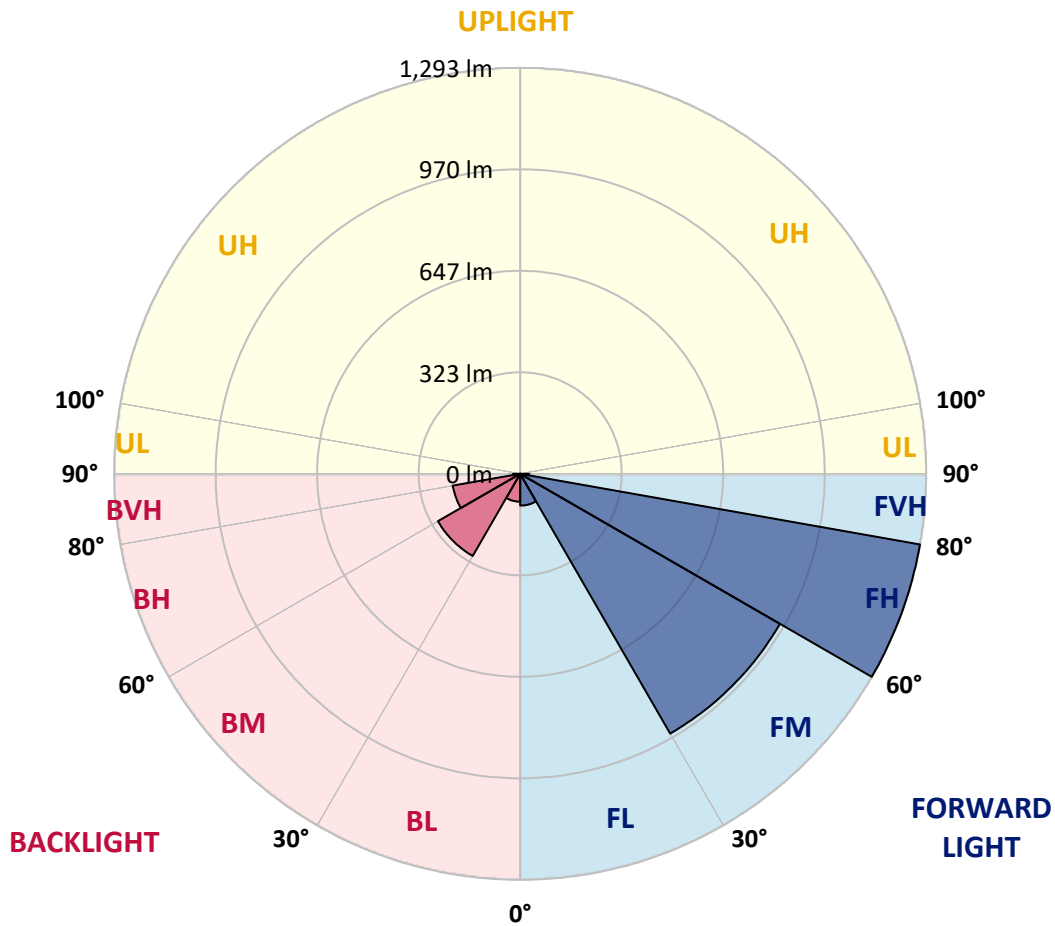
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.2	3.4			
FM (30°-60°)	955.3	31.7			
FH (60°-80°)	1293.2	43.0			G1/1800
FVH (80°-90°)	28.4	0.9			G1/100
BL (0°-30°)	88.8	3.0	B0/110		
BM (30°-60°)	302.2	10.0	B1/1000		
BH (60°-80°)	218.1	7.2	B1/500		G1/500
BVH (80°-90°)	22.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2.5°	112.0	101.0	98.0	93.0	93.0	93.0	94.0	92.0	90.0	97.0	100.0
5°	152.0	131.0	134.0	116.0	100.0	95.0	91.0	95.0	105.0	123.0	123.0
7.5°	186.0	172.0	169.0	144.0	124.0	118.0	113.0	118.0	131.0	143.0	144.0
10°	202.0	195.0	183.0	161.0	160.0	160.0	159.0	153.0	150.0	159.0	158.0
12.5°	211.0	210.0	217.0	200.0	202.0	203.0	202.0	197.0	190.0	181.0	173.0
15°	237.0	236.0	232.0	226.0	226.0	233.0	227.0	226.0	216.0	209.0	195.0
17.5°	258.0	259.0	248.0	246.0	248.0	249.0	248.0	245.0	237.0	231.0	223.0
20°	272.0	271.0	259.0	242.0	254.0	259.0	257.0	257.0	246.0	249.0	246.0
22.5°	286.0	279.0	255.0	245.0	250.0	259.0	261.0	259.0	253.0	260.0	271.0
25°	296.0	288.0	267.0	253.0	256.0	263.0	259.0	267.0	270.0	279.0	283.0
27.5°	317.0	313.0	275.0	270.0	263.0	257.0	259.0	274.0	286.0	285.0	307.0
30°	378.0	366.0	313.0	293.0	278.0	266.0	272.0	290.0	305.0	310.0	345.0
32.5°	481.0	474.0	385.0	329.0	302.0	299.0	296.0	301.0	333.0	360.0	380.0
35°	584.1	566.1	482.0	404.0	337.0	321.0	330.0	340.0	382.0	390.0	392.0
37.5°	709.1	681.1	566.1	463.0	409.0	378.0	367.0	397.0	409.0	399.0	424.0
40°	821.1	763.1	666.1	538.0	444.0	424.0	406.0	394.0	407.0	430.0	470.0
42.5°	916.1	882.1	763.1	634.1	505.0	425.0	429.0	398.0	445.0	475.0	523.0
45°	1007.1	952.1	843.1	742.1	595.1	502.0	497.0	445.0	504.0	537.0	584.1
47.5°	1078.1	1015.1	943.1	830.1	684.1	605.1	573.1	514.0	579.1	631.1	693.1
50°	1165.1	1098.1	1015.1	936.1	830.1	737.1	692.1	607.1	677.1	782.1	918.1
52.5°	1320.1	1243.1	1115.1	1051.1	996.1	859.1	823.1	752.1	838.1	1033.1	1289.1
55°	1471.1	1377.1	1261.1	1216.1	1199.1	1013.1	973.1	962.1	1150.1	1343.1	1709.2
57.5°	1597.1	1494.1	1416.1	1394.1	1404.1	1275.1	1221.1	1261.1	1468.1	1665.1	2107.2
60°	1666.1	1560.1	1513.1	1557.1	1657.1	1611.1	1601.1	1591.1	1768.2	1951.2	2400.2
62.5°	1660.1	1553.1	1563.1	1644.1	1859.2	1985.2	1998.2	1925.2	2000.2	2148.2	2484.2
65°	1495.1	1373.1	1477.1	1643.1	2021.2	2319.2	2322.2	2212.2	2145.2	2141.2	2283.2
67.5°	1117.1	1043.1	1216.1	1471.1	2028.2	2575.2	2573.2	2435.2	2144.2	1956.2	1874.2
70°	759.1	647.1	791.1	1121.1	1740.2	2517.2	2597.2	2356.2	1896.2	1613.1	1265.1
72.5°	338.0	313.0	413.0	668.1	1215.1	2053.2	2172.2	1881.2	1473.1	1097.1	696.1
75°	164.0	153.0	193.0	343.0	663.1	1340.1	1412.1	1232.1	894.1	603.1	309.0
77.5°	92.0	85.0	103.0	157.0	306.0	623.1	662.1	597.1	405.0	264.0	142.0
80°	63.0	58.0	70.0	97.0	167.0	194.0	233.0	262.0	199.0	139.0	86.0
82.5°	36.0	33.0	44.0	61.0	108.0	93.0	97.0	127.0	116.0	91.0	53.0
85°	19.0	18.0	25.0	34.0	57.0	48.0	45.0	60.0	69.0	61.0	31.0
87.5°	5.0	5.0	8.0	11.0	14.0	11.0	13.0	15.0	20.0	20.0	10.0
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°	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2.5°	103.0	96.0	97.0	89.0	88.0	92.0	92.0	93.0	99.0	100.0	106.0
5°	132.0	122.0	117.0	106.0	95.0	91.0	98.0	115.0	128.0	132.0	139.0
7.5°	152.0	143.0	138.0	123.0	109.0	110.0	119.0	134.0	150.0	160.0	171.0
10°	158.0	153.0	148.0	138.0	143.0	145.0	145.0	151.0	166.0	170.0	175.0
12.5°	176.0	168.0	166.0	169.0	177.0	184.0	181.0	183.0	188.0	191.0	193.0
15°	190.0	187.0	190.0	191.0	204.0	207.0	206.0	204.0	211.0	209.0	207.0
17.5°	216.0	219.0	208.0	216.0	224.0	230.0	223.0	219.0	223.0	227.0	221.0
20°	240.0	238.0	228.0	230.0	234.0	233.0	224.0	217.0	224.0	235.0	238.0
22.5°	266.0	259.0	244.0	235.0	227.0	228.0	222.0	216.0	225.0	241.0	242.0
25°	284.0	278.0	262.0	248.0	231.0	213.0	212.0	214.0	222.0	245.0	244.0
27.5°	309.0	298.0	270.0	257.0	226.0	198.0	205.0	209.0	211.0	237.0	243.0
30°	337.0	340.0	288.0	259.0	215.0	190.0	190.0	195.0	202.0	232.0	235.0
32.5°	373.0	356.0	316.0	251.0	201.0	185.0	182.0	186.0	192.0	216.0	220.0
35°	387.0	393.0	331.0	240.0	191.0	176.0	175.0	173.0	178.0	200.0	205.0
37.5°	444.0	436.0	351.0	234.0	183.0	171.0	162.0	163.0	168.0	182.0	187.0
40°	491.0	491.0	361.0	219.0	175.0	166.0	155.0	155.0	156.0	166.0	171.0
42.5°	552.0	561.0	371.0	203.0	172.0	157.0	150.0	148.0	148.0	152.0	158.0
45°	642.1	626.1	363.0	183.0	163.0	159.0	146.0	144.0	142.0	145.0	150.0
47.5°	781.1	717.1	349.0	167.0	156.0	160.0	144.0	139.0	138.0	142.0	148.0
50°	1033.1	885.1	318.0	155.0	151.0	155.0	145.0	139.0	137.0	142.0	147.0
52.5°	1452.1	1149.1	292.0	147.0	144.0	152.0	149.0	140.0	137.0	143.0	148.0
55°	1883.2	1434.1	268.0	142.0	139.0	150.0	150.0	143.0	139.0	144.0	151.0
57.5°	2266.2	1642.1	259.0	138.0	135.0	147.0	150.0	143.0	141.0	152.0	158.0
60°	2510.2	1732.2	237.0	134.0	133.0	144.0	154.0	145.0	147.0	164.0	175.0
62.5°	2487.2	1644.1	199.0	130.0	131.0	146.0	160.0	154.0	153.0	172.0	183.0
65°	2196.2	1351.1	161.0	128.0	128.0	152.0	173.0	156.0	149.0	167.0	175.0
67.5°	1656.1	968.1	135.0	125.0	125.0	158.0	183.0	156.0	144.0	161.0	166.0
70°	1048.1	581.1	123.0	120.0	120.0	154.0	179.0	151.0	137.0	147.0	147.0
72.5°	588.1	281.0	113.0	116.0	112.0	136.0	169.0	143.0	129.0	134.0	136.0
75°	243.0	145.0	104.0	108.0	100.0	120.0	160.0	135.0	121.0	121.0	125.0
77.5°	117.0	96.0	92.0	98.0	88.0	105.0	144.0	124.0	107.0	105.0	107.0
80°	80.0	69.0	75.0	83.0	75.0	90.0	128.0	114.0	92.0	88.0	87.0
82.5°	49.0	44.0	56.0	60.0	56.0	77.0	114.0	94.0	70.0	61.0	66.0
85°	25.0	26.0	33.0	37.0	34.0	49.0	76.0	56.0	40.0	36.0	39.0
87.5°	6.0	9.0	11.0	12.0	9.0	5.0	6.0	7.0	7.0	6.0	3.0
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)