

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: P565402

Luminaire Tested: **IFLD-M-SA4A-AMB-U-T4W-HSS**

Issue Date: 09/02/2021

Test Information

Test Method: LM-79-08
Report Number: P565402
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/02/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-AMB-U-T4W-HSS
Description: STREETWORKS INFRASTRUCTURE FLOOD – Middle Tier Light Square
Luminaire w/ T4W distribution lens and House Side Shield
Light Source: (48) AMB CCT, -- CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

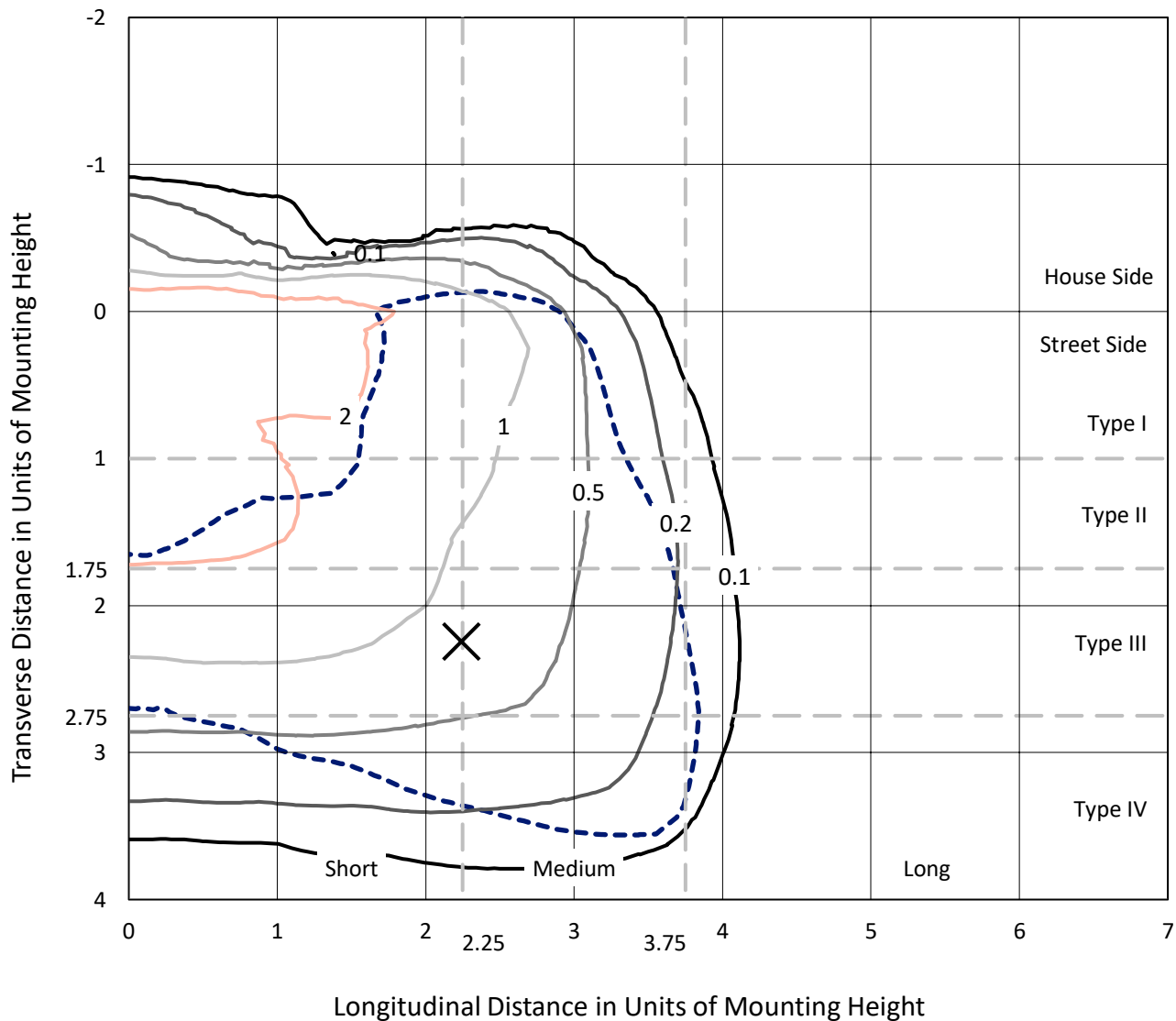
Lumens per Lamp: N/A
Luminaire Lumens: 3238.6 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 83
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

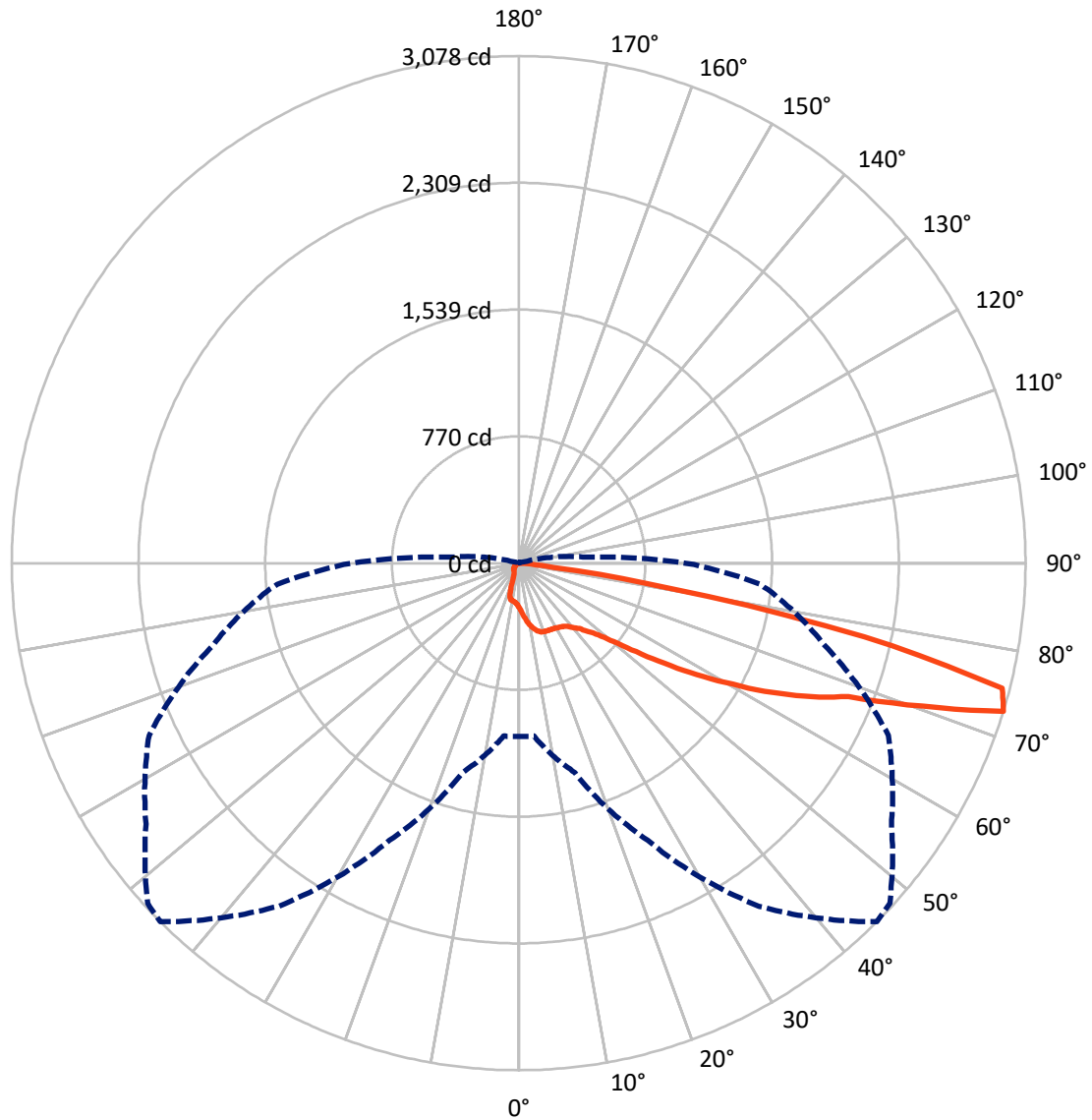
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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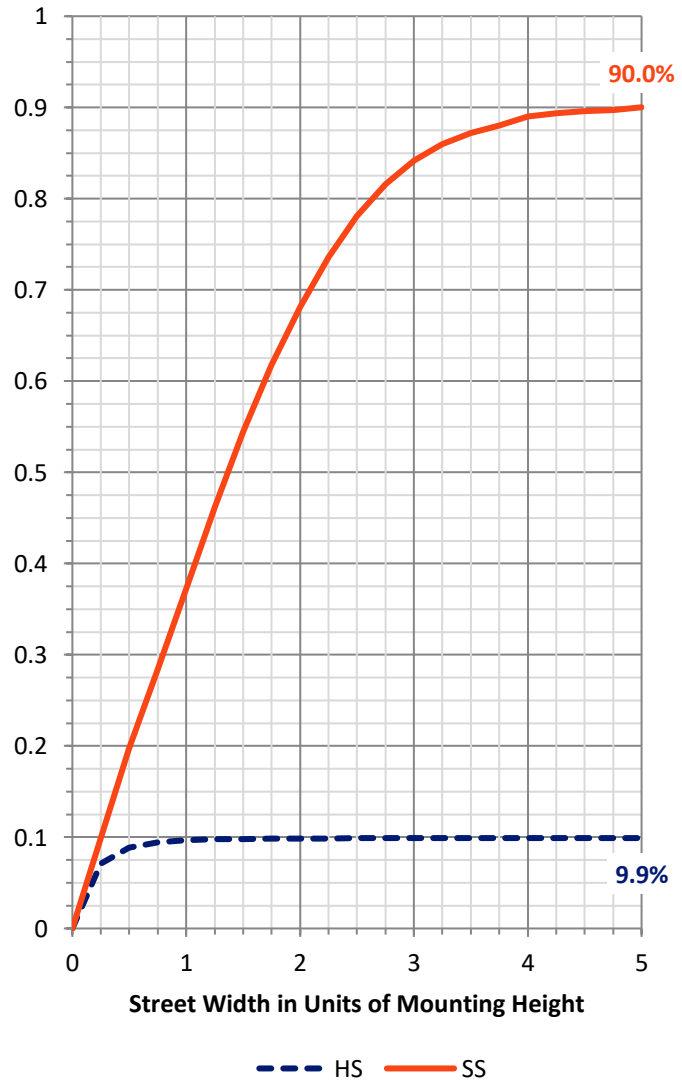
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.9	0.0	323.9
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	2914.7	0.0	2914.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	3238.6	0.0	3238.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	0.9
10°-20°	87.8	2.7
20°-30°	136.9	4.2
30°-40°	194.8	6.0
40°-50°	335.4	10.4
50°-60°	619.7	19.1
60°-70°	1040.9	32.1
70°-80°	752.7	23.2
80°-90°	42.4	1.3
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°	3238.6	100.0
0°-180°	3238.6	100.0

Coefficient of Utilization



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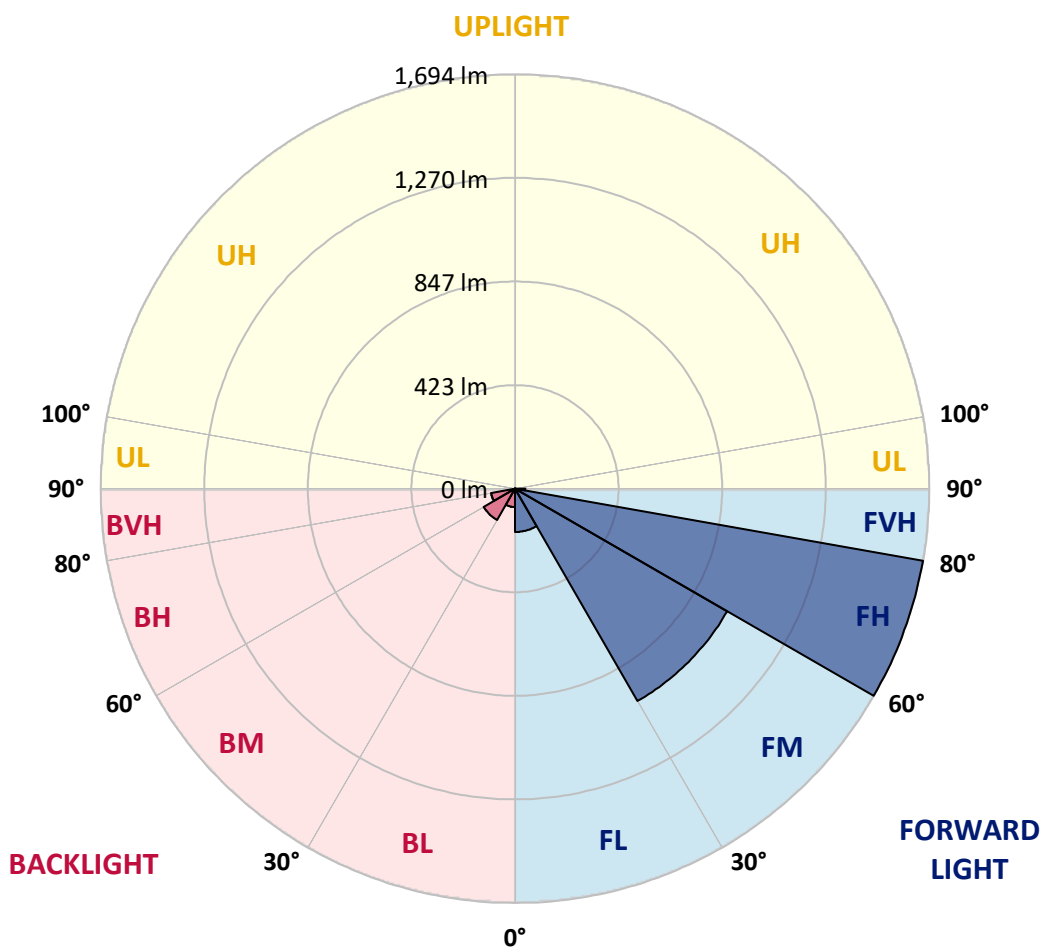
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.1	5.5			
FM (30°-60°)	1002.2	30.9			
FH (60°-80°)	1693.9	52.3			G1/1800
FVH (80°-90°)	41.5	1.3			G1/100
BL (0°-30°)	75.5	2.3	B0/110		
BM (30°-60°)	147.8	4.6	B0/220		
BH (60°-80°)	99.7	3.1	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1
2.5°	304.0	299.8	299.8	299.8	295.6	289.3	289.3	287.1	282.9	276.6	272.4
5°	356.8	350.5	348.4	342.0	331.5	320.9	318.8	310.4	299.8	287.1	276.6
7.5°	401.2	399.0	394.8	384.3	371.6	354.7	350.5	339.9	323.0	306.1	289.3
10°	437.0	434.9	428.6	415.9	399.0	384.3	380.0	369.5	350.5	329.4	308.3
12.5°	466.6	464.5	456.0	439.2	422.3	407.5	403.3	394.8	375.8	354.7	327.3
15°	483.5	483.5	475.0	453.9	437.0	426.5	424.4	415.9	399.0	375.8	346.3
17.5°	483.5	481.4	472.9	453.9	443.4	439.2	437.0	432.8	418.0	396.9	365.3
20°	462.4	462.4	460.3	447.6	441.3	443.4	443.4	443.4	432.8	413.8	380.0
22.5°	445.5	443.4	443.4	434.9	437.0	445.5	445.5	447.6	441.3	426.5	394.8
25°	437.0	434.9	437.0	428.6	432.8	447.6	449.7	453.9	449.7	437.0	407.5
27.5°	434.9	432.8	434.9	428.6	434.9	449.7	453.9	460.3	456.0	441.3	415.9
30°	439.2	434.9	437.0	430.7	439.2	456.0	458.2	468.7	464.5	451.8	432.8
32.5°	460.3	449.7	447.6	437.0	447.6	462.4	466.6	479.3	483.5	468.7	449.7
35°	508.8	481.4	466.6	453.9	460.3	470.8	475.0	496.2	508.8	489.8	466.6
37.5°	572.2	534.2	500.4	479.3	477.2	487.7	491.9	517.3	536.3	517.3	491.9
40°	713.6	692.5	627.1	525.7	500.4	515.2	519.4	544.7	578.5	548.9	523.6
42.5°	920.5	901.5	825.5	656.6	534.2	542.6	546.8	576.4	616.5	593.3	563.7
45°	1097.9	1093.7	1028.2	827.6	608.1	591.2	597.5	618.6	667.2	650.3	612.3
47.5°	1157.0	1157.0	1159.1	1009.2	736.9	648.2	652.4	679.8	736.9	724.2	682.0
50°	1190.8	1192.9	1228.8	1163.3	910.0	749.5	734.7	758.0	831.9	825.5	777.0
52.5°	1290.0	1294.2	1319.6	1298.5	1119.0	893.1	865.6	861.4	958.5	969.1	910.0
55°	1412.5	1401.9	1408.3	1437.8	1342.8	1072.6	1024.0	998.7	1119.0	1157.0	1095.8
57.5°	1486.4	1477.9	1518.0	1589.8	1577.2	1275.2	1205.6	1167.6	1330.1	1361.8	1279.5
60°	1589.8	1579.3	1640.5	1744.0	1790.4	1492.7	1404.0	1368.1	1551.8	1537.0	1522.3
62.5°	1644.7	1655.3	1754.5	1885.4	1955.1	1731.3	1638.4	1604.6	1733.4	1731.3	1820.0
65°	1670.1	1682.7	1887.5	2020.5	2138.8	1955.1	1881.2	1801.0	1908.6	1925.5	2244.3
67.5°	1663.7	1682.7	1923.4	2214.8	2371.0	2162.0	2086.0	1995.2	2115.5	2159.9	2599.0
70°	1520.2	1526.5	1746.1	2231.7	2601.2	2601.2	2556.8	2392.1	2406.9	2259.1	2385.8
72.5°	1053.6	1053.6	1315.4	1858.0	2542.0	3078.3	3057.2	2763.7	2476.6	1921.3	1473.7
75°	356.8	369.5	580.6	1093.7	2039.5	3034.0	3042.4	2630.7	1967.8	1102.1	491.9
77.5°	76.0	78.1	137.2	352.6	1150.7	2145.1	2162.0	1716.5	973.3	337.8	90.8
80°	33.8	35.9	52.8	103.5	344.1	922.6	962.8	739.0	306.1	118.2	31.7
82.5°	12.7	14.8	27.4	54.9	145.7	215.4	230.1	200.6	122.5	86.6	16.9
85°	4.2	4.2	10.6	27.4	61.2	33.8	35.9	71.8	86.6	67.6	8.4
87.5°	0.0	0.0	4.2	8.4	12.7	8.4	8.4	14.8	44.3	48.6	2.1
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°	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1
2.5°	270.2	268.1	263.9	259.7	255.5	251.2	249.1	249.1	247.0	247.0	247.0
5°	272.4	268.1	257.6	251.2	244.9	240.7	238.6	238.6	238.6	236.5	236.5
7.5°	280.8	274.5	259.7	249.1	240.7	234.4	230.1	228.0	228.0	228.0	230.1
10°	297.7	287.1	268.1	251.2	238.6	230.1	221.7	217.5	217.5	215.4	215.4
12.5°	314.6	299.8	276.6	255.5	240.7	228.0	209.0	185.8	171.0	162.6	160.5
15°	331.5	314.6	285.0	261.8	242.8	213.2	162.6	122.5	101.3	99.2	97.1
17.5°	348.4	329.4	295.6	268.1	234.4	164.7	101.3	80.2	78.1	84.5	84.5
20°	363.1	344.1	306.1	274.5	196.4	103.5	73.9	73.9	73.9	80.2	82.3
22.5°	377.9	358.9	316.7	268.1	141.5	73.9	69.7	71.8	71.8	78.1	78.1
25°	390.6	373.7	331.5	238.6	84.5	65.5	67.6	69.7	69.7	73.9	76.0
27.5°	401.2	388.5	346.3	192.1	63.3	61.2	63.3	65.5	65.5	69.7	71.8
30°	420.2	409.6	361.0	137.2	59.1	57.0	59.1	61.2	63.3	65.5	67.6
32.5°	441.3	432.8	363.1	84.5	57.0	54.9	52.8	54.9	59.1	61.2	63.3
35°	466.6	464.5	348.4	61.2	54.9	50.7	50.7	48.6	50.7	54.9	57.0
37.5°	496.2	498.3	318.8	57.0	52.8	48.6	46.4	44.3	42.2	44.3	44.3
40°	529.9	538.4	274.5	54.9	50.7	46.4	42.2	38.0	33.8	31.7	33.8
42.5°	580.6	591.2	217.5	52.8	50.7	44.3	38.0	31.7	25.3	23.2	23.2
45°	631.3	650.3	156.2	52.8	50.7	40.1	31.7	23.2	16.9	14.8	14.8
47.5°	701.0	717.9	97.1	52.8	52.8	35.9	25.3	16.9	12.7	10.6	10.6
50°	806.5	796.0	69.7	50.7	50.7	29.6	19.0	12.7	8.4	8.4	10.6
52.5°	964.9	897.3	59.1	48.6	48.6	25.3	12.7	10.6	8.4	8.4	8.4
55°	1197.1	1002.9	54.9	44.3	40.1	19.0	10.6	8.4	6.3	6.3	6.3
57.5°	1393.5	1074.7	46.4	38.0	27.4	14.8	10.6	8.4	6.3	4.2	4.2
60°	1640.5	1135.9	35.9	29.6	19.0	12.7	10.6	8.4	6.3	4.2	4.2
62.5°	1896.0	1184.5	25.3	21.1	14.8	10.6	8.4	6.3	4.2	2.1	2.1
65°	2149.3	1218.2	19.0	14.8	10.6	8.4	6.3	4.2	4.2	2.1	2.1
67.5°	2248.6	1152.8	16.9	12.7	8.4	8.4	6.3	4.2	2.1	2.1	0.0
70°	1872.7	846.6	14.8	10.6	8.4	6.3	4.2	2.1	2.1	0.0	0.0
72.5°	1017.7	409.6	12.7	10.6	6.3	4.2	4.2	2.1	2.1	0.0	0.0
75°	291.4	86.6	10.6	8.4	6.3	4.2	2.1	2.1	2.1	0.0	0.0
77.5°	57.0	21.1	8.4	6.3	4.2	2.1	2.1	2.1	0.0	0.0	0.0
80°	25.3	12.7	6.3	4.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
82.5°	12.7	8.4	6.3	4.2	4.2	2.1	2.1	0.0	0.0	0.0	0.0
85°	4.2	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	0.0	0.0	0.0	0.0	0.0	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)