

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: P483012

Luminaire Tested: **IFLD-M-SA4A-830-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483012
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

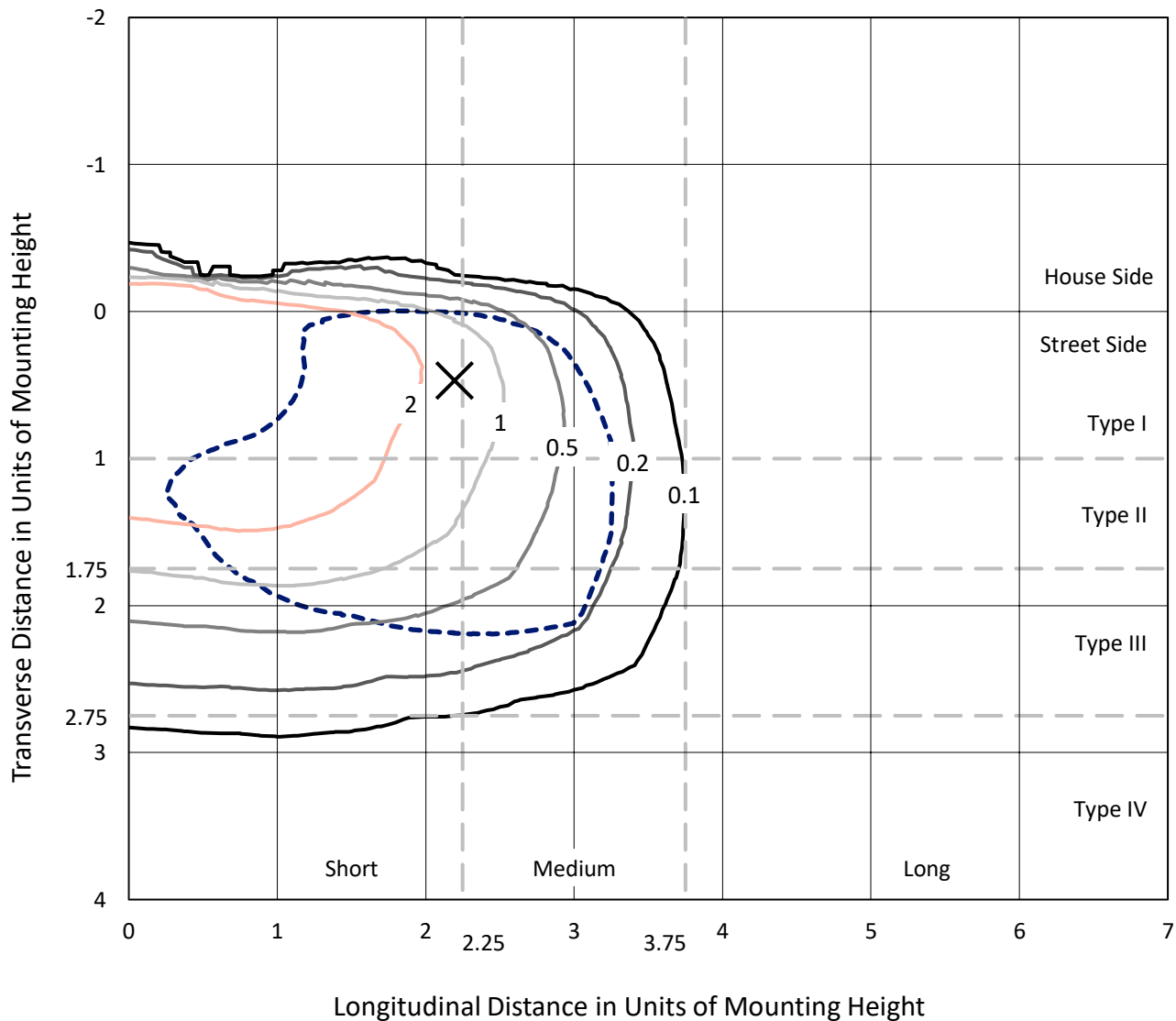
Lumens per Lamp: N/A
Luminaire Lumens: 10518.7 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): 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

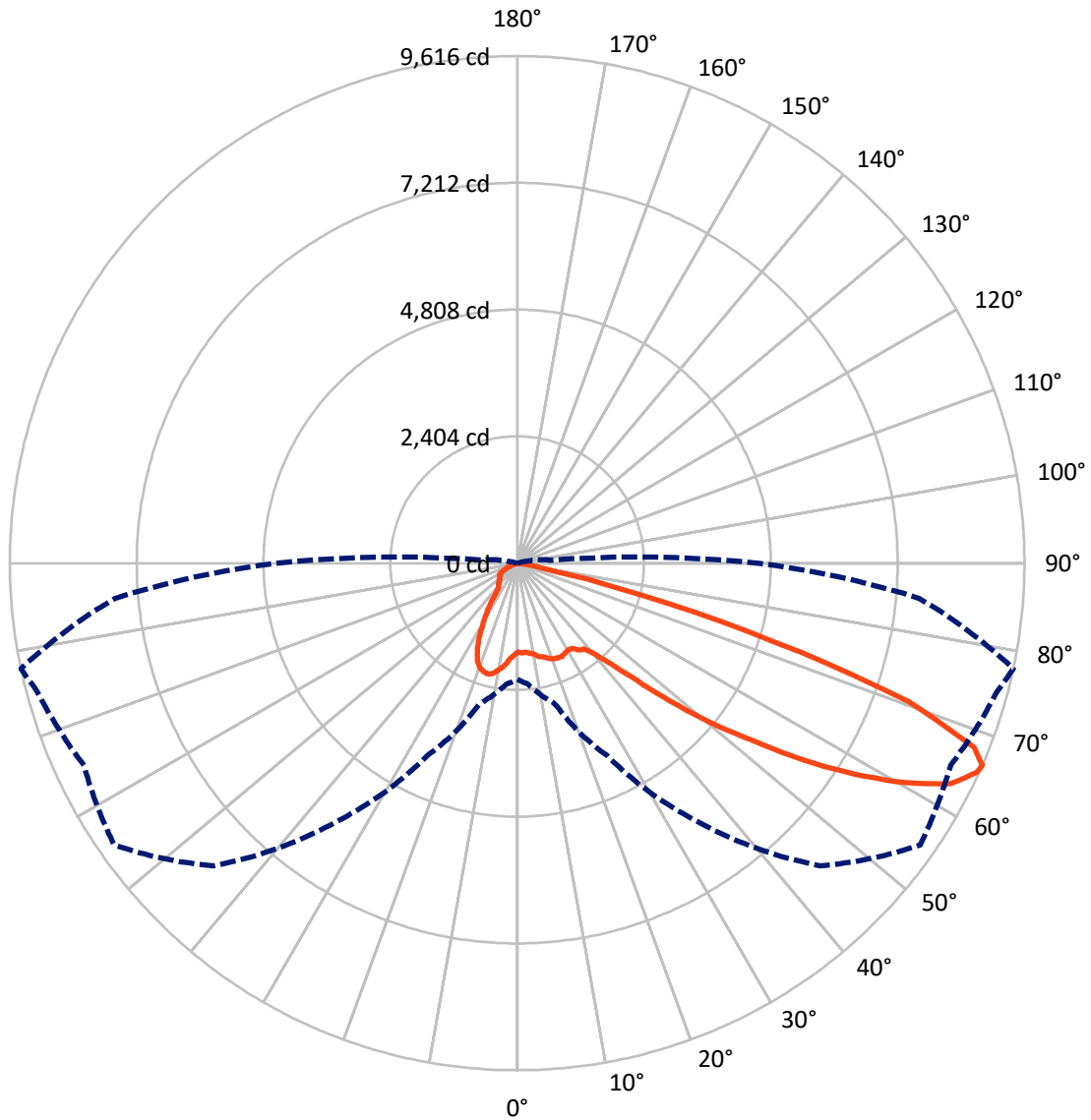
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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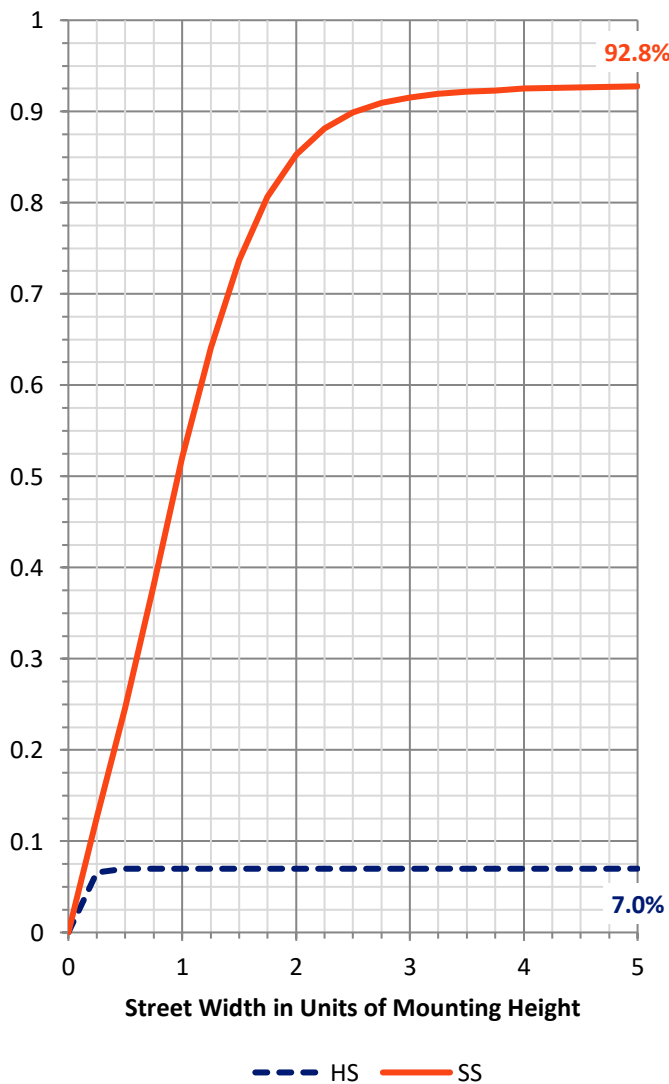
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	739.5	0.0	739.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	9779.2	0.0	9779.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	10518.7	0.0	10518.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.5
10°-20°	347.9	3.3
20°-30°	497.3	4.7
30°-40°	851.3	8.1
40°-50°	1536.4	14.6
50°-60°	2627.4	25.0
60°-70°	3233.9	30.7
70°-80°	1222.6	11.6
80°-90°	47.8	0.5
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°	10518.7	100.0
0°-180°	10518.7	100.0

Coefficient of Utilization

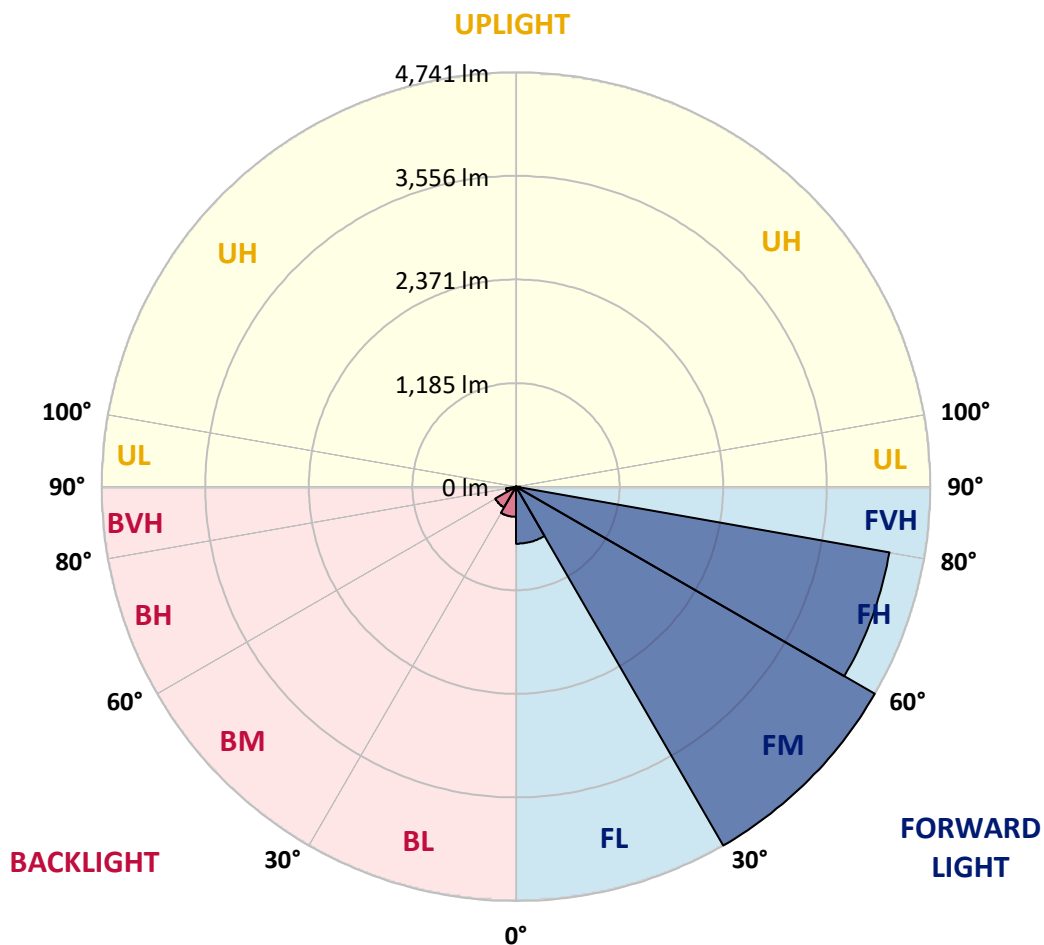


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.0	6.2			
FM (30°-60°)	4741.0	45.1			
FH (60°-80°)	4339.4	41.3			G2/5000
FVH (80°-90°)	45.8	0.4			G1/100
BL (0°-30°)	346.3	3.3	B1/500		
BM (30°-60°)	274.1	2.6	B1/1000		
BH (60°-80°)	117.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8
2.5°	1549.7	1535.4	1549.7	1570.3	1581.4	1591.0	1624.4	1653.0	1683.2	1703.8	1697.5
5°	1436.8	1463.8	1467.0	1473.4	1490.9	1548.1	1567.1	1616.4	1691.1	1697.5	1726.1
7.5°	1347.8	1339.9	1360.5	1401.8	1446.3	1479.7	1535.4	1621.2	1699.1	1726.1	1781.7
10°	1219.1	1235.0	1257.2	1298.5	1352.6	1435.2	1533.8	1629.1	1740.4	1749.9	1853.2
12.5°	1149.1	1133.2	1168.2	1211.1	1303.3	1379.6	1500.4	1614.8	1765.8	1818.3	1937.5
15°	1091.9	1099.9	1133.2	1161.8	1238.1	1335.1	1476.5	1649.8	1808.7	1845.3	2026.5
17.5°	1068.1	1063.3	1088.7	1117.3	1211.1	1320.8	1467.0	1651.4	1846.9	1894.6	2086.9
20°	1079.2	1088.7	1080.8	1107.8	1166.6	1277.9	1481.3	1681.6	1875.5	1940.7	2152.0
22.5°	1254.0	1241.3	1177.7	1126.9	1130.1	1260.4	1470.2	1700.7	1900.9	1953.4	2196.5
25°	1710.2	1641.8	1484.5	1289.0	1160.3	1212.7	1457.5	1694.3	1896.1	1961.3	2223.6
27.5°	2169.5	2110.7	1956.5	1653.0	1282.6	1193.6	1413.0	1699.1	1872.3	1932.7	2179.1
30°	2654.3	2686.1	2457.2	2096.4	1603.7	1298.5	1384.4	1673.6	1856.4	1907.3	2188.6
32.5°	3151.8	3139.1	3000.8	2609.8	2063.0	1530.6	1430.5	1699.1	1877.1	1926.3	2244.2
35°	3541.2	3496.7	3356.8	3004.0	2442.9	1880.3	1589.4	1819.9	1967.7	2026.5	2323.7
37.5°	3733.5	3752.6	3671.5	3364.7	2859.3	2204.5	1788.1	1819.9	1996.3	2064.6	2452.4
40°	3882.9	3940.1	3909.9	3811.4	3272.6	2570.1	2007.4	1932.7	2140.9	2269.7	2694.0
42.5°	4062.5	4035.5	4213.5	4122.9	3813.0	3031.0	2392.0	2201.3	2482.6	2606.6	3056.4
45°	4157.9	4261.2	4396.3	4512.3	4313.6	3606.3	2894.3	2676.5	3005.5	3162.9	3595.2
47.5°	4402.6	4443.9	4663.3	4809.5	4720.5	4264.3	3657.2	3371.1	3663.6	3911.5	4211.9
50°	4545.7	4490.0	4796.8	5019.3	5070.2	4809.5	4340.6	4118.1	4445.5	4761.8	4788.8
52.5°	4420.1	4579.0	4885.8	5284.7	5426.2	5295.9	5143.3	5046.3	5276.8	5569.2	5438.9
55°	3979.8	4087.9	4834.9	5575.6	6031.8	5971.4	6112.8	6049.2	6281.3	6591.2	6198.6
57.5°	3625.4	3760.5	4416.9	5726.6	6596.0	6774.0	6952.0	6912.3	7192.0	7549.6	6842.3
60°	3404.5	3482.4	4114.9	5688.4	6929.8	7603.7	8005.8	7726.0	8182.2	8455.6	7346.2
62.5°	3021.4	3070.7	3674.7	5183.0	7029.9	8190.2	8872.0	8492.1	8887.9	9221.7	7708.6
65°	2422.2	2555.7	3054.8	4426.5	6368.7	8298.2	9412.4	8965.8	9348.8	9568.2	7818.2
66°	2204.5	2301.4	2759.2	4025.9	5992.0	8118.6	9321.8	9064.3	9415.6	9615.8	7649.8
67.5°	1829.4	1913.6	2277.6	3455.3	5221.2	7722.9	9385.4	8997.6	9466.4	9344.1	7424.1
70°	1211.1	1265.2	1557.6	2336.4	3636.5	6317.8	8705.1	8476.2	8322.1	7862.7	5804.5
72.5°	565.8	643.7	972.7	1416.2	2133.0	4420.1	7098.2	6791.5	5836.3	5102.0	3662.0
75°	255.9	290.9	534.0	812.2	956.8	2290.3	4579.0	4135.6	2905.4	2412.7	1603.7
77.5°	138.3	157.4	260.7	386.2	348.1	802.6	2266.5	1885.0	915.5	670.7	465.7
80°	106.5	125.6	217.7	220.9	128.7	208.2	842.4	583.3	228.9	173.2	111.3
82.5°	55.6	79.5	171.7	143.0	65.2	84.2	260.7	162.1	71.5	57.2	47.7
85°	22.3	35.0	97.0	95.4	38.1	28.6	73.1	49.3	28.6	23.8	22.3
87.5°	1.6	1.6	52.5	36.6	23.8	7.9	11.1	11.1	14.3	12.7	15.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8	1684.8
2.5°	1726.1	1745.2	1748.3	1800.8	1811.9	1800.8	1829.4	1824.6	1837.3	1827.8	1810.3
5°	1765.8	1792.8	1845.3	1885.0	1885.0	1853.2	1827.8	1794.4	1745.2	1732.4	1722.9
7.5°	1834.2	1920.0	1967.7	1942.2	1891.4	1772.2	1606.9	1486.1	1384.4	1346.2	1328.7
10°	1955.0	2002.6	2058.3	1955.0	1743.6	1490.9	1212.7	1029.9	886.9	855.1	831.3
12.5°	2032.8	2109.1	2140.9	1885.0	1470.2	1093.5	791.5	584.9	484.8	408.5	395.8
15°	2134.6	2222.0	2156.8	1695.9	1158.7	716.8	410.1	255.9	208.2	195.5	195.5
17.5°	2204.5	2299.9	2091.6	1460.7	821.7	381.5	203.4	176.4	173.2	174.8	171.7
20°	2326.9	2384.1	1993.1	1187.3	491.1	195.5	163.7	157.4	154.2	158.9	155.8
22.5°	2373.0	2425.4	1832.6	859.9	220.9	130.3	122.4	117.6	120.8	119.2	117.6
25°	2369.8	2396.8	1568.7	492.7	65.2	50.9	46.1	46.1	42.9	44.5	42.9
27.5°	2393.6	2326.9	1273.1	146.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2406.3	2214.0	906.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2412.7	2155.2	583.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2462.0	2037.6	249.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2495.4	1886.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2633.6	1838.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2813.2	1749.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3062.8	1618.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3393.4	1540.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3639.7	1417.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3952.8	1344.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4324.7	1347.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4663.3	1325.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4836.5	1133.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4800.0	917.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4672.8	720.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4585.4	637.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4320.0	510.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3437.9	349.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2187.0	214.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1007.7	98.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	316.3	60.4	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.6	38.1	12.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.9	27.0	11.1	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.0	11.1	4.8	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.8	6.4	3.2	3.2	1.6	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)