

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: P483263

Luminaire Tested: **IFLD-S-SA2D-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483263
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

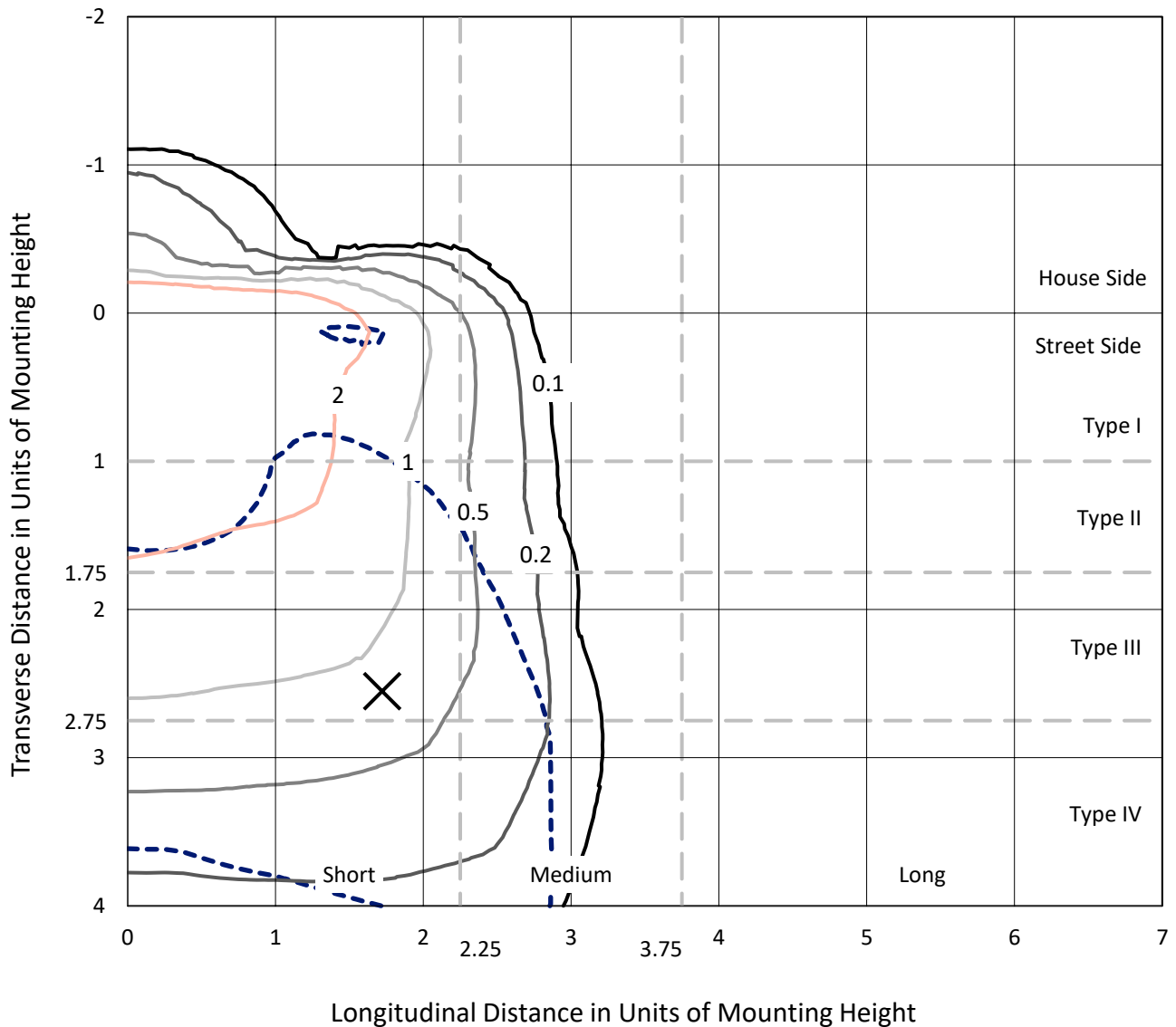
Lumens per Lamp: N/A
Luminaire Lumens: 11567.7 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 123.9
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

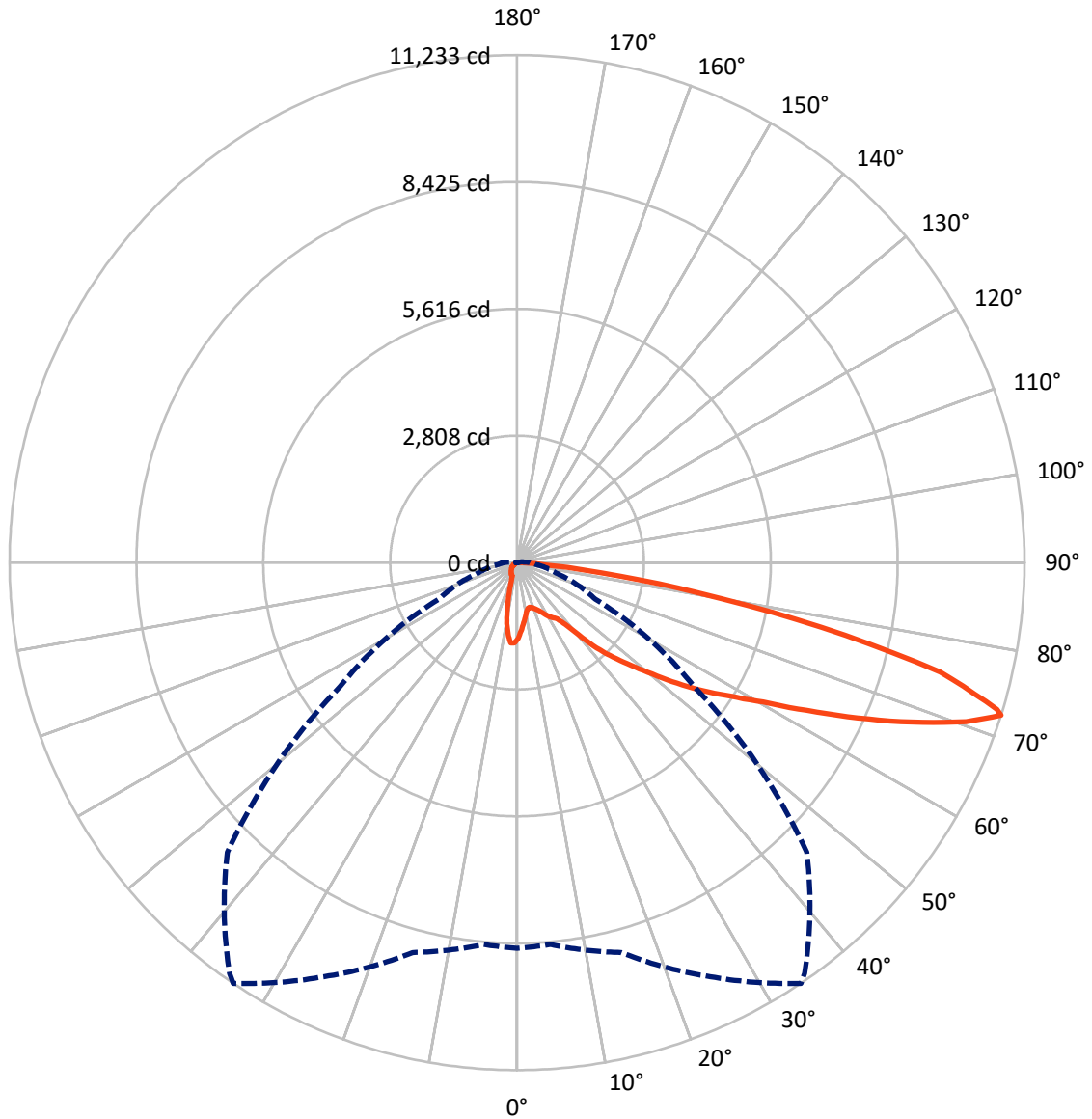
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.3	0.0	1184.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10383.5	0.0	10383.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	11567.7	0.0	11567.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	1.3
10°-20°	332.6	2.9
20°-30°	502.0	4.3
30°-40°	814.7	7.0
40°-50°	1532.0	13.2
50°-60°	2504.9	21.7
60°-70°	3329.9	28.8
70°-80°	2230.0	19.3
80°-90°	174.8	1.5
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°	11567.7	100.0
0°-180°	11567.7	100.0

Coefficient of Utilization



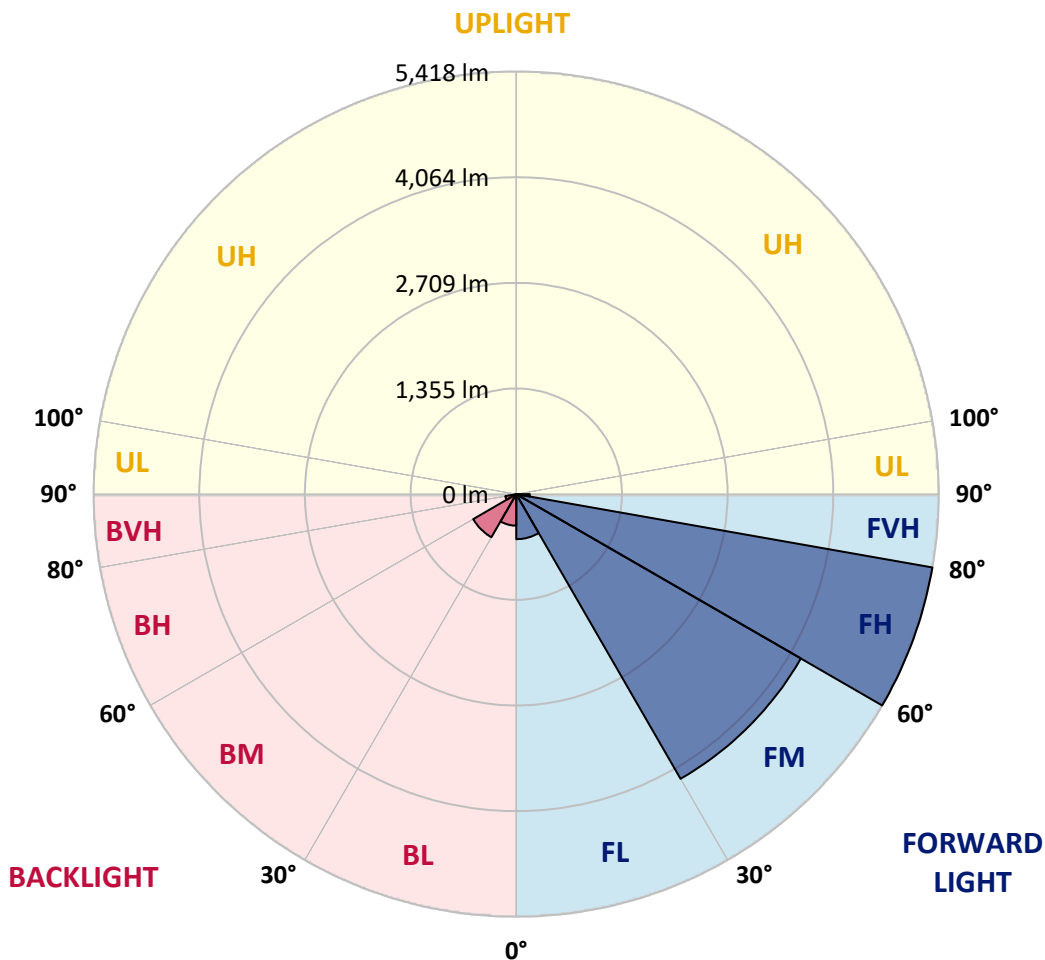
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.5	5.0			
FM (30°-60°)	4214.1	36.4			
FH (60°-80°)	5418.2	46.8			G3/7500
FVH (80°-90°)	173.7	1.5			G2/225
BL (0°-30°)	404.1	3.5	B1/500		
BM (30°-60°)	637.5	5.5	B1/1000		
BH (60°-80°)	141.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4
2.5°	1496.7	1493.4	1503.4	1520.1	1536.8	1530.2	1561.9	1595.4	1618.8	1650.6	1689.0
5°	1307.7	1316.1	1326.1	1359.6	1381.3	1386.3	1444.9	1488.3	1560.3	1633.8	1702.4
7.5°	1135.5	1145.5	1165.6	1202.4	1247.5	1259.2	1317.8	1404.7	1498.4	1595.4	1707.4
10°	1010.1	1020.1	1041.8	1065.3	1125.5	1125.5	1205.7	1326.1	1448.2	1561.9	1709.1
12.5°	983.3	988.3	986.7	1005.1	1043.5	1051.9	1130.5	1262.6	1404.7	1550.2	1735.8
15°	1015.1	1018.4	1001.7	991.7	1025.1	1033.5	1107.1	1224.1	1376.3	1556.9	1779.3
17.5°	1078.6	1066.9	1033.5	1018.4	1046.9	1051.9	1120.4	1222.5	1373.0	1575.3	1829.5
20°	1115.4	1128.8	1070.3	1041.8	1082.0	1088.7	1162.2	1249.2	1389.7	1607.1	1899.7
22.5°	1180.6	1187.3	1108.7	1090.3	1128.8	1128.8	1212.4	1302.7	1429.8	1658.9	1983.3
25°	1272.6	1264.3	1172.3	1153.9	1190.7	1205.7	1289.3	1388.0	1491.7	1707.4	2060.3
27.5°	1344.5	1349.5	1274.3	1225.8	1287.7	1297.7	1388.0	1480.0	1538.5	1747.6	2153.9
30°	1451.6	1441.5	1361.3	1306.1	1383.0	1384.7	1471.6	1566.9	1628.8	1819.5	2294.4
32.5°	1578.6	1558.6	1466.6	1388.0	1449.9	1464.9	1553.6	1692.4	1769.3	1954.9	2511.8
35°	1847.9	1799.4	1648.9	1526.8	1531.8	1538.5	1675.6	1874.6	1963.3	2127.2	2802.8
37.5°	2240.9	2220.8	2050.2	1817.8	1729.2	1709.1	1862.9	2115.5	2225.8	2354.6	3180.7
40°	2630.5	2602.1	2443.2	2267.6	2107.1	2067.0	2143.9	2434.9	2535.2	2670.7	3568.7
42.5°	3063.7	3013.5	2826.2	2684.0	2583.7	2540.2	2510.1	2836.2	2949.9	3041.9	3948.3
45°	3501.8	3419.9	3148.9	3040.2	2986.7	2963.3	2960.0	3341.3	3409.8	3428.2	4369.7
47.5°	3886.4	3797.8	3552.0	3429.9	3389.7	3383.1	3570.4	3923.2	3869.7	3821.2	4839.6
50°	4182.4	4125.6	3948.3	3904.8	3874.7	3863.0	4301.2	4521.9	4274.4	4189.1	5252.7
52.5°	4640.6	4513.5	4312.9	4327.9	4433.3	4434.9	5042.0	5090.5	4610.5	4441.6	5642.3
55°	5006.9	4923.2	4759.4	4737.6	5015.2	5045.3	5705.9	5521.9	4797.8	4682.4	5786.2
57.5°	5438.3	5399.9	5281.1	5284.5	5575.4	5639.0	6296.2	5886.5	4953.3	4838.0	5807.9
60°	6062.1	5951.7	5889.8	5918.3	6261.1	6323.0	6868.1	6149.0	5028.6	4940.0	5754.4
62.5°	6751.1	6622.3	6555.4	6700.9	7200.9	7211.0	7302.9	6381.5	4981.8	4966.7	5409.9
65°	7580.5	7453.4	7399.9	7692.6	8286.2	8249.4	7913.3	6480.2	4832.9	4697.5	4505.2
67.5°	8406.6	8329.7	8219.3	8685.9	9425.1	9425.1	8547.1	6443.4	4443.3	3771.0	2946.6
70°	8798.0	8851.5	9027.1	9759.5	10543.8	10463.6	9172.6	6020.3	3307.8	2025.2	1158.9
72°	8537.1	8481.9	8935.1	10110.7	11232.8	11100.7	9067.2	4786.1	1911.4	888.0	403.0
72.5°	8088.9	8140.7	8764.5	10062.2	11104.1	11212.8	8809.7	4414.9	1572.0	707.4	304.4
75°	4960.0	5048.7	6542.0	8543.8	9675.9	9553.8	6814.6	2103.8	603.7	301.0	108.7
77.5°	1811.1	1884.7	3174.0	5376.4	6881.5	6804.6	3943.3	747.5	327.8	224.1	55.2
80°	471.6	510.1	1078.6	2480.0	4047.0	4052.0	1650.6	299.3	222.4	184.0	33.4
82.5°	93.6	103.7	331.1	964.9	1891.4	1866.3	521.8	160.5	167.2	150.5	23.4
85°	11.7	15.1	70.2	327.8	612.1	548.5	128.8	80.3	123.8	117.1	15.1
87.5°	1.7	1.7	16.7	75.3	128.8	125.4	26.8	25.1	55.2	71.9	8.4
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°	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4	1692.4
2.5°	1710.8	1717.5	1740.9	1760.9	1784.3	1791.0	1781.0	1797.7	1774.3	1787.7	1791.0
5°	1714.1	1752.6	1796.0	1824.5	1817.8	1801.1	1787.7	1742.5	1710.8	1699.1	1724.1
7.5°	1737.5	1781.0	1827.8	1827.8	1791.0	1704.1	1620.5	1540.2	1473.3	1439.8	1468.3
10°	1767.6	1812.8	1861.3	1797.7	1660.6	1501.7	1383.0	1232.5	1130.5	1077.0	1082.0
12.5°	1807.8	1871.3	1888.0	1740.9	1513.4	1277.6	1061.9	852.9	755.9	679.0	680.6
15°	1859.6	1921.5	1871.3	1617.1	1326.1	978.3	719.1	520.1	443.2	403.0	403.0
17.5°	1928.2	1975.0	1866.3	1503.4	1073.6	668.9	441.5	351.2	334.5	327.8	327.8
20°	2008.4	2043.5	1817.8	1326.1	797.7	429.8	324.4	314.4	316.1	312.7	312.7
22.5°	2098.7	2110.4	1762.6	1120.4	540.2	317.7	302.7	304.4	306.0	302.7	304.4
25°	2194.1	2162.3	1682.3	879.6	359.5	289.3	292.7	296.0	297.7	299.3	299.3
27.5°	2301.1	2237.5	1570.3	643.8	280.9	272.6	282.6	292.7	294.3	294.3	292.7
30°	2458.3	2352.9	1461.6	436.5	247.5	254.2	270.9	282.6	291.0	291.0	289.3
32.5°	2657.3	2473.3	1309.4	297.7	229.1	232.4	245.8	269.2	287.6	289.3	284.3
35°	2933.2	2618.8	1150.5	237.5	215.7	217.4	225.8	244.2	275.9	286.0	284.3
37.5°	3224.2	2784.4	953.2	214.1	205.7	204.0	209.0	224.1	252.5	277.6	279.3
40°	3533.6	2958.3	745.8	202.3	197.3	194.0	195.7	202.3	224.1	255.9	262.6
42.5°	3824.5	3115.5	560.2	190.6	189.0	185.6	185.6	187.3	199.0	220.7	224.1
45°	4138.9	3244.3	426.4	182.3	177.3	178.9	172.2	168.9	177.3	178.9	177.3
47.5°	4433.3	3373.0	341.1	172.2	167.2	167.2	158.9	152.2	152.2	137.1	135.5
50°	4709.2	3443.3	272.6	158.9	157.2	155.5	143.8	132.1	122.1	103.7	100.3
52.5°	4938.3	3439.9	210.7	142.1	147.2	142.1	123.8	107.0	92.0	75.3	71.9
55°	5006.9	3279.4	158.9	117.1	125.4	118.7	98.7	83.6	66.9	53.5	51.8
57.5°	4948.3	3035.2	120.4	90.3	97.0	90.3	75.3	61.9	46.8	36.8	33.4
60°	4752.7	2749.3	93.6	70.2	73.6	68.6	56.9	46.8	33.4	23.4	20.1
62.5°	4381.4	2391.4	71.9	55.2	53.5	53.5	43.5	35.1	23.4	13.4	11.7
65°	3595.4	1864.6	55.2	38.5	38.5	38.5	33.4	25.1	15.1	6.7	3.3
67.5°	2257.6	1085.3	45.2	30.1	28.4	28.4	23.4	16.7	8.4	1.7	0.0
70°	849.5	398.0	35.1	23.4	21.7	21.7	16.7	10.0	5.0	0.0	0.0
72°	292.7	152.2	28.4	16.7	16.7	15.1	11.7	8.4	3.3	0.0	0.0
72.5°	240.8	122.1	26.8	16.7	15.1	15.1	11.7	8.4	3.3	0.0	0.0
75°	87.0	50.2	18.4	11.7	10.0	10.0	8.4	5.0	1.7	0.0	0.0
77.5°	43.5	31.8	15.1	10.0	8.4	5.0	5.0	3.3	1.7	0.0	0.0
80°	26.8	20.1	8.4	6.7	5.0	3.3	1.7	1.7	0.0	0.0	0.0
82.5°	18.4	11.7	5.0	5.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0
85°	11.7	5.0	3.3	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	3.3	1.7	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)