

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: P483112

Luminaire Tested: **IFLD-S-SA3D-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483112
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-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

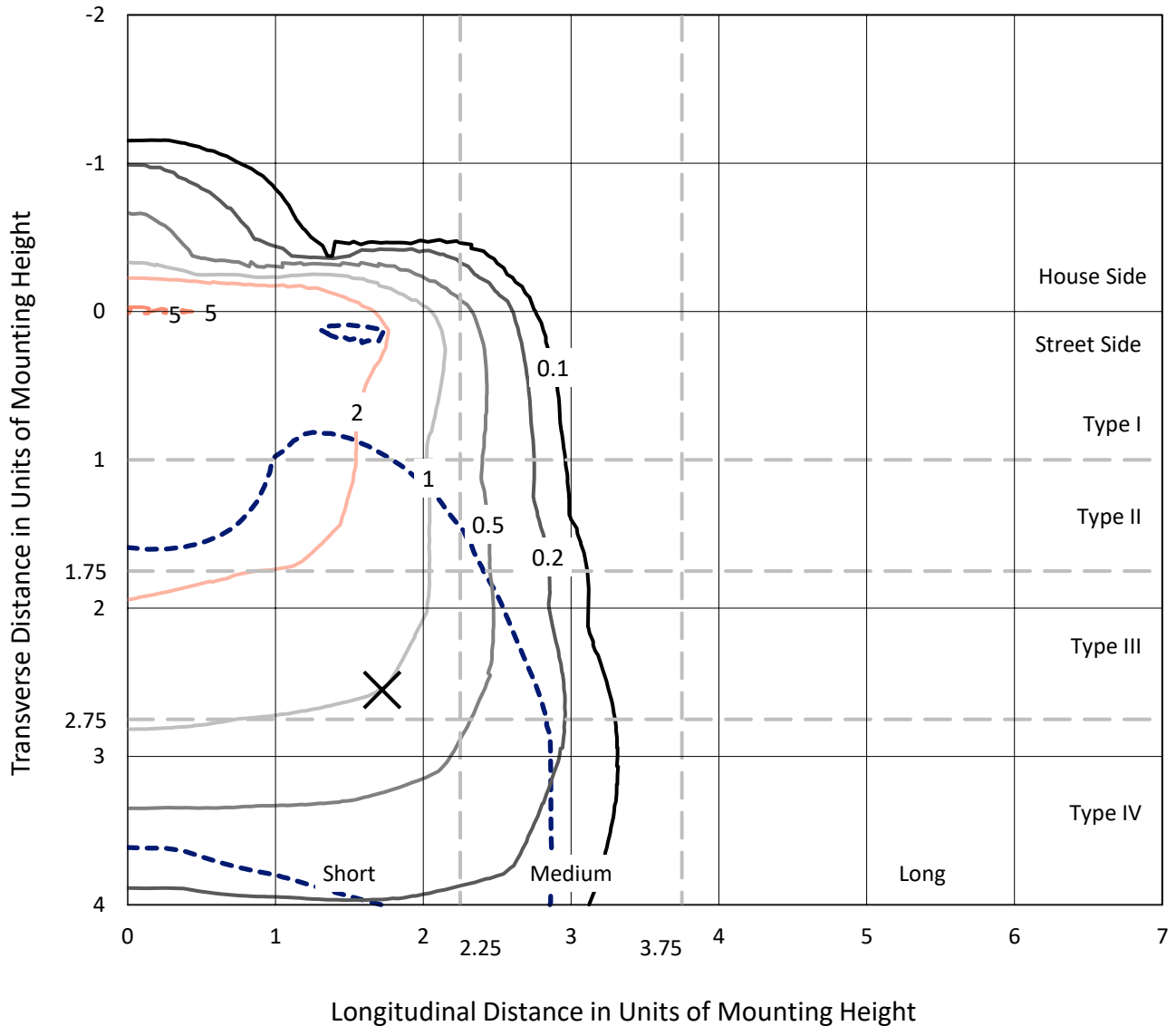
Lumens per Lamp: N/A
Luminaire Lumens: 14094.2 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

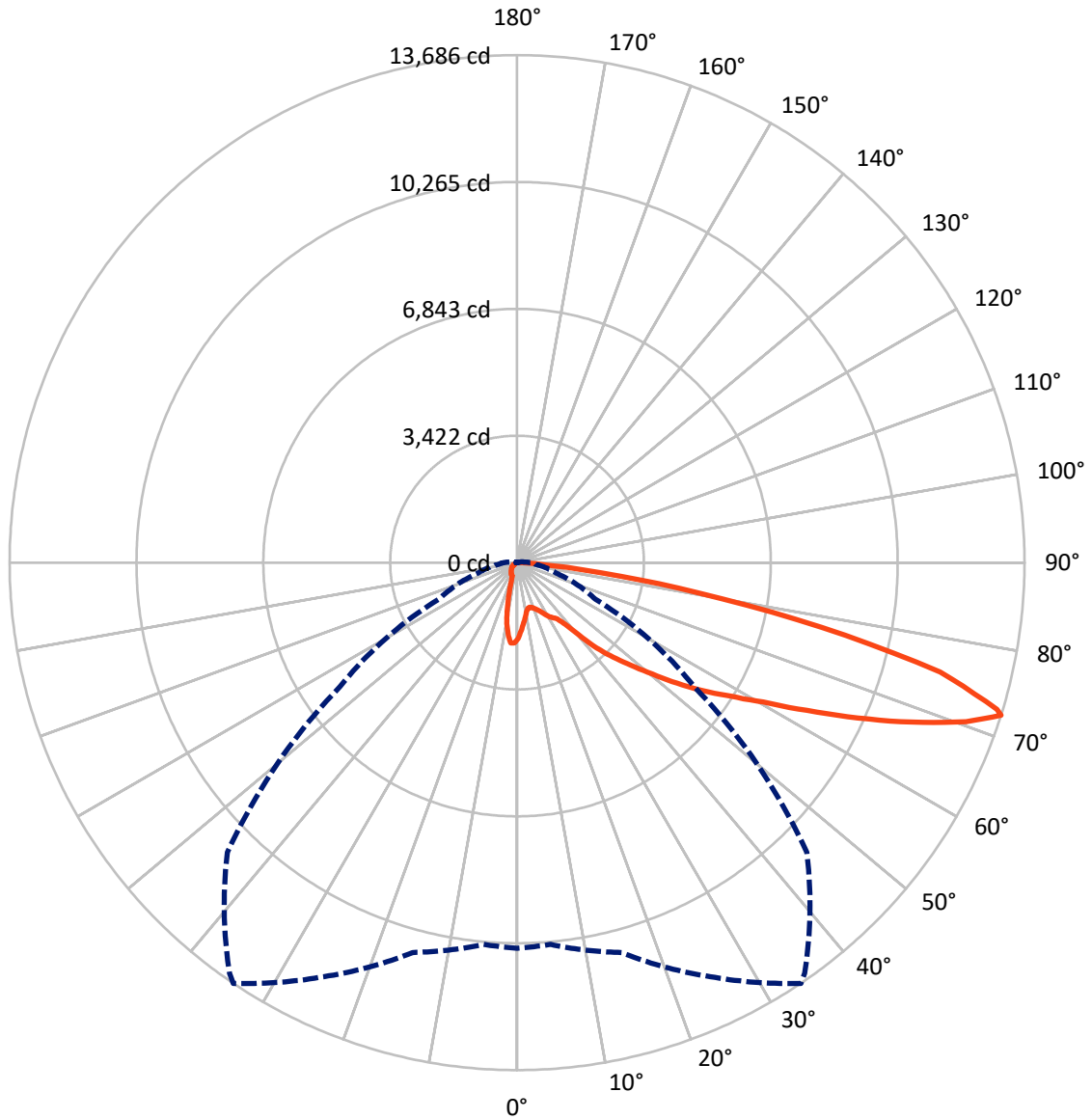
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	1442.9	0.0	1442.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	12651.3	0.0	12651.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	14094.2	0.0	14094.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	1.3
10°-20°	405.3	2.9
20°-30°	611.7	4.3
30°-40°	992.6	7.0
40°-50°	1866.6	13.2
50°-60°	3051.9	21.7
60°-70°	4057.1	28.8
70°-80°	2717.0	19.3
80°-90°	212.9	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°	14094.2	100.0
0°-180°	14094.2	100.0

Coefficient of Utilization



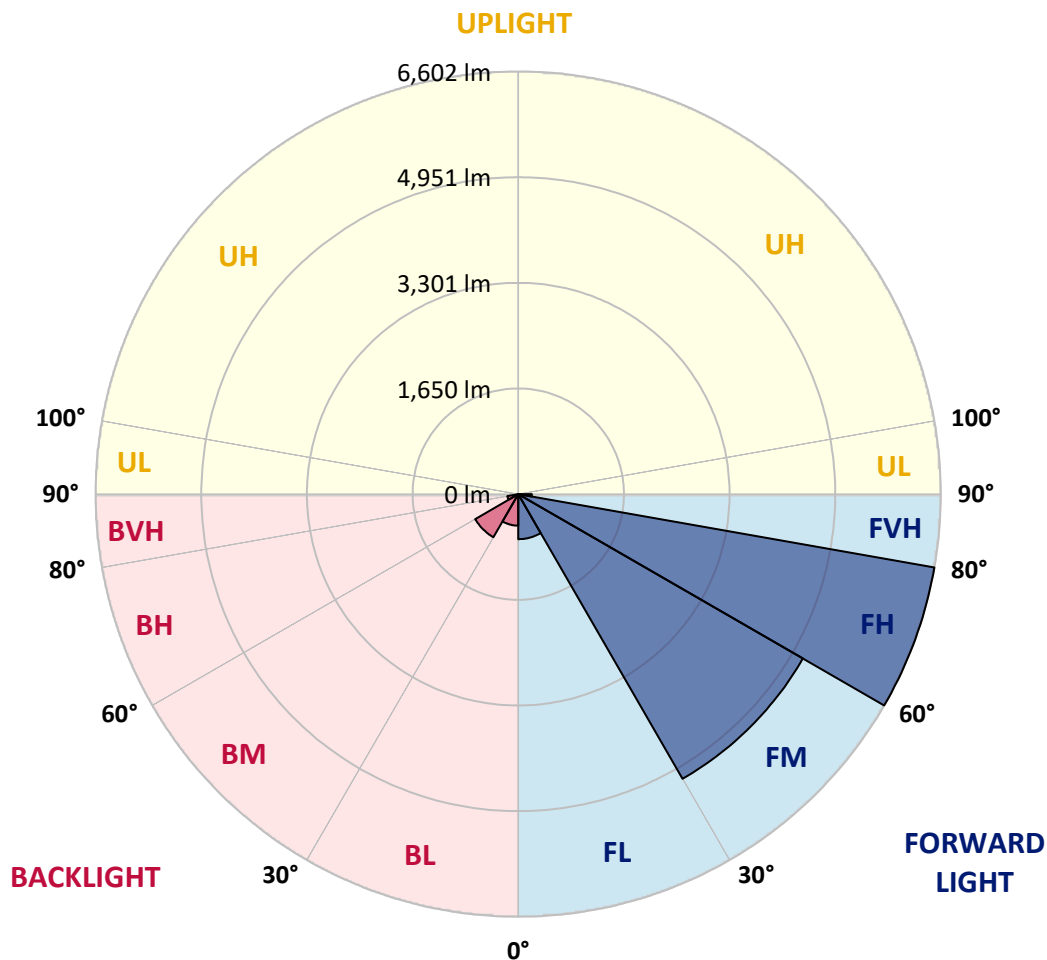
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.6	5.0			
FM (30°-60°)	5134.5	36.4			
FH (60°-80°)	6601.6	46.8			G3/7500
FVH (80°-90°)	211.6	1.5			G2/225
BL (0°-30°)	492.3	3.5	B1/500		
BM (30°-60°)	776.7	5.5	B1/1000		
BH (60°-80°)	172.5	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	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°	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0
2.5°	1823.6	1819.5	1831.7	1852.1	1872.5	1864.3	1903.1	1943.8	1972.3	2011.1	2057.9
5°	1593.4	1603.5	1615.8	1656.5	1683.0	1689.1	1760.4	1813.4	1901.0	1990.7	2074.2
7.5°	1383.5	1395.7	1420.2	1465.0	1520.0	1534.3	1605.6	1711.5	1825.6	1943.8	2080.3
10°	1230.7	1242.9	1269.4	1297.9	1371.3	1371.3	1469.1	1615.8	1764.5	1903.1	2082.4
12.5°	1198.1	1204.2	1202.1	1224.6	1271.4	1281.6	1377.4	1538.3	1711.5	1888.8	2115.0
15°	1236.8	1240.9	1220.5	1208.3	1249.0	1259.2	1348.9	1491.5	1676.9	1896.9	2167.9
17.5°	1314.2	1299.9	1259.2	1240.9	1275.5	1281.6	1365.2	1489.4	1672.8	1919.4	2229.1
20°	1359.0	1375.3	1304.0	1269.4	1318.3	1326.4	1416.1	1522.0	1693.2	1958.1	2314.6
22.5°	1438.5	1446.7	1350.9	1328.5	1375.3	1375.3	1477.2	1587.2	1742.1	2021.2	2416.5
25°	1550.6	1540.4	1428.3	1405.9	1450.7	1469.1	1570.9	1691.2	1817.5	2080.3	2510.2
27.5°	1638.2	1644.3	1552.6	1493.5	1568.9	1581.1	1691.2	1803.2	1874.5	2129.2	2624.3
30°	1768.6	1756.4	1658.6	1591.3	1685.0	1687.1	1793.0	1909.2	1984.6	2216.8	2795.5
32.5°	1923.4	1899.0	1786.9	1691.2	1766.5	1784.9	1892.9	2062.0	2155.7	2381.9	3060.4
35°	2251.5	2192.4	2009.0	1860.3	1866.4	1874.5	2041.6	2284.1	2392.1	2591.7	3414.9
37.5°	2730.3	2705.9	2498.0	2214.8	2106.8	2082.4	2269.8	2577.5	2712.0	2868.9	3875.4
40°	3205.0	3170.4	2976.8	2762.9	2567.3	2518.4	2612.1	2966.7	3088.9	3253.9	4348.1
42.5°	3732.8	3671.6	3443.4	3270.2	3148.0	3095.0	3058.3	3455.7	3594.2	3706.3	4810.6
45°	4266.6	4166.8	3836.7	3704.2	3639.0	3610.5	3606.4	4071.0	4154.5	4177.0	5324.1
47.5°	4735.2	4627.2	4327.7	4179.0	4130.1	4121.9	4350.1	4780.1	4714.9	4655.8	5896.6
50°	5095.9	5026.6	4810.6	4757.7	4721.0	4706.7	5240.5	5509.5	5207.9	5104.0	6399.9
52.5°	5654.2	5499.3	5254.8	5273.1	5401.5	5403.6	6143.2	6202.3	5617.5	5411.7	6874.7
55°	6100.4	5998.5	5798.8	5772.3	6110.6	6147.3	6952.1	6728.0	5845.7	5705.1	7049.9
57.5°	6626.1	6579.2	6434.5	6438.6	6793.2	6870.6	7671.3	7172.1	6035.2	5894.6	7076.4
60°	7386.1	7251.6	7176.2	7210.8	7628.5	7703.9	8368.2	7492.0	6126.9	6018.9	7011.2
62.5°	8225.5	8068.7	7987.1	8164.4	8773.6	8785.9	8897.9	7775.2	6069.8	6051.5	6591.4
65°	9236.2	9081.3	9016.1	9372.7	10096.0	10051.2	9641.6	7895.5	5888.5	5723.4	5489.1
67.5°	10242.7	10149.0	10014.5	10583.0	11483.6	11483.6	10413.9	7850.6	5413.7	4594.6	3590.1
70°	10719.5	10784.7	10998.6	11891.1	12846.7	12748.9	11175.9	7335.1	4030.3	2467.5	1412.0
72°	10401.6	10334.4	10886.6	12319.0	13686.1	13525.2	11047.5	5831.4	2328.9	1081.9	491.0
72.5°	9855.6	9918.7	10678.7	12259.9	13529.3	13661.7	10733.8	5379.1	1915.3	861.9	370.8
75°	6043.3	6151.3	7970.8	10409.8	11789.2	11640.5	8303.0	2563.2	735.6	366.8	132.4
77.5°	2206.7	2296.3	3867.2	6550.7	8384.5	8290.7	4804.5	910.8	399.4	273.0	67.2
80°	574.6	621.4	1314.2	3021.7	4930.8	4937.0	2011.1	364.7	271.0	224.1	40.8
82.5°	114.1	126.3	403.4	1175.7	2304.5	2273.9	635.7	195.6	203.8	183.4	28.5
85°	14.3	18.3	85.6	399.4	745.7	668.3	156.9	97.8	150.8	142.6	18.3
87.5°	2.0	2.0	20.4	91.7	156.9	152.8	32.6	30.6	67.2	87.6	10.2
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°	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0	2062.0
2.5°	2084.4	2092.6	2121.1	2145.5	2174.1	2182.2	2170.0	2190.4	2161.8	2178.1	2182.2
5°	2088.5	2135.3	2188.3	2223.0	2214.8	2194.4	2178.1	2123.1	2084.4	2070.1	2100.7
7.5°	2117.0	2170.0	2227.0	2227.0	2182.2	2076.3	1974.4	1876.6	1795.1	1754.3	1789.0
10°	2153.7	2208.7	2267.8	2190.4	2023.3	1829.7	1685.0	1501.7	1377.4	1312.2	1318.3
12.5°	2202.6	2280.0	2300.4	2121.1	1844.0	1556.7	1293.8	1039.1	921.0	827.2	829.3
15°	2265.7	2341.1	2280.0	1970.3	1615.8	1192.0	876.1	633.7	539.9	491.0	491.0
17.5°	2349.3	2406.3	2273.9	1831.7	1308.1	815.0	537.9	427.9	407.5	399.4	399.4
20°	2447.1	2489.9	2214.8	1615.8	971.9	523.6	395.3	383.1	385.1	381.0	381.0
22.5°	2557.1	2571.4	2147.6	1365.2	658.1	387.1	368.8	370.8	372.9	368.8	370.8
25°	2673.2	2634.5	2049.8	1071.7	438.1	352.5	356.6	360.6	362.7	364.7	364.7
27.5°	2803.7	2726.2	1913.2	784.5	342.3	332.1	344.3	356.6	358.6	358.6	356.6
30°	2995.2	2866.8	1780.8	531.8	301.6	309.7	330.1	344.3	354.5	354.5	352.5
32.5°	3237.6	3013.5	1595.4	362.7	279.1	283.2	299.5	328.0	350.5	352.5	346.4
35°	3573.8	3190.8	1401.8	289.3	262.8	264.9	275.1	297.5	336.2	348.4	346.4
37.5°	3928.4	3392.5	1161.4	260.8	250.6	248.6	254.7	273.0	307.7	338.2	340.3
40°	4305.3	3604.4	908.7	246.5	240.4	236.4	238.4	246.5	273.0	311.7	319.9
42.5°	4659.8	3795.9	682.6	232.3	230.2	226.2	226.2	228.2	242.5	269.0	273.0
45°	5042.9	3952.8	519.6	222.1	216.0	218.0	209.9	205.8	216.0	218.0	216.0
47.5°	5401.5	4109.7	415.7	209.9	203.8	203.8	193.6	185.4	185.4	167.1	165.0
50°	5737.7	4195.3	332.1	193.6	191.5	189.5	175.2	161.0	148.7	126.3	122.3
52.5°	6016.8	4191.2	256.7	173.2	179.3	173.2	150.8	130.4	112.1	91.7	87.6
55°	6100.4	3995.6	193.6	142.6	152.8	144.7	120.2	101.9	81.5	65.2	63.2
57.5°	6029.1	3698.1	146.7	110.0	118.2	110.0	91.7	75.4	57.1	44.8	40.8
60°	5790.7	3349.7	114.1	85.6	89.7	83.5	69.3	57.1	40.8	28.5	24.5
62.5°	5338.3	2913.7	87.6	67.2	65.2	65.2	53.0	42.8	28.5	16.3	14.3
65°	4380.7	2271.9	67.2	46.9	46.9	46.9	40.8	30.6	18.3	8.2	4.1
67.5°	2750.7	1322.4	55.0	36.7	34.6	34.6	28.5	20.4	10.2	2.0	0.0
70°	1035.1	484.9	42.8	28.5	26.5	26.5	20.4	12.2	6.1	0.0	0.0
72°	356.6	185.4	34.6	20.4	20.4	18.3	14.3	10.2	4.1	0.0	0.0
72.5°	293.4	148.7	32.6	20.4	18.3	18.3	14.3	10.2	4.1	0.0	0.0
75°	106.0	61.1	22.4	14.3	12.2	12.2	10.2	6.1	2.0	0.0	0.0
77.5°	53.0	38.7	18.3	12.2	10.2	6.1	6.1	4.1	2.0	0.0	0.0
80°	32.6	24.5	10.2	8.2	6.1	4.1	2.0	2.0	0.0	0.0	0.0
82.5°	22.4	14.3	6.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	6.1	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	4.1	2.0	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)