

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: P483149

Luminaire Tested: **IFLD-S-SA3B-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483149
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

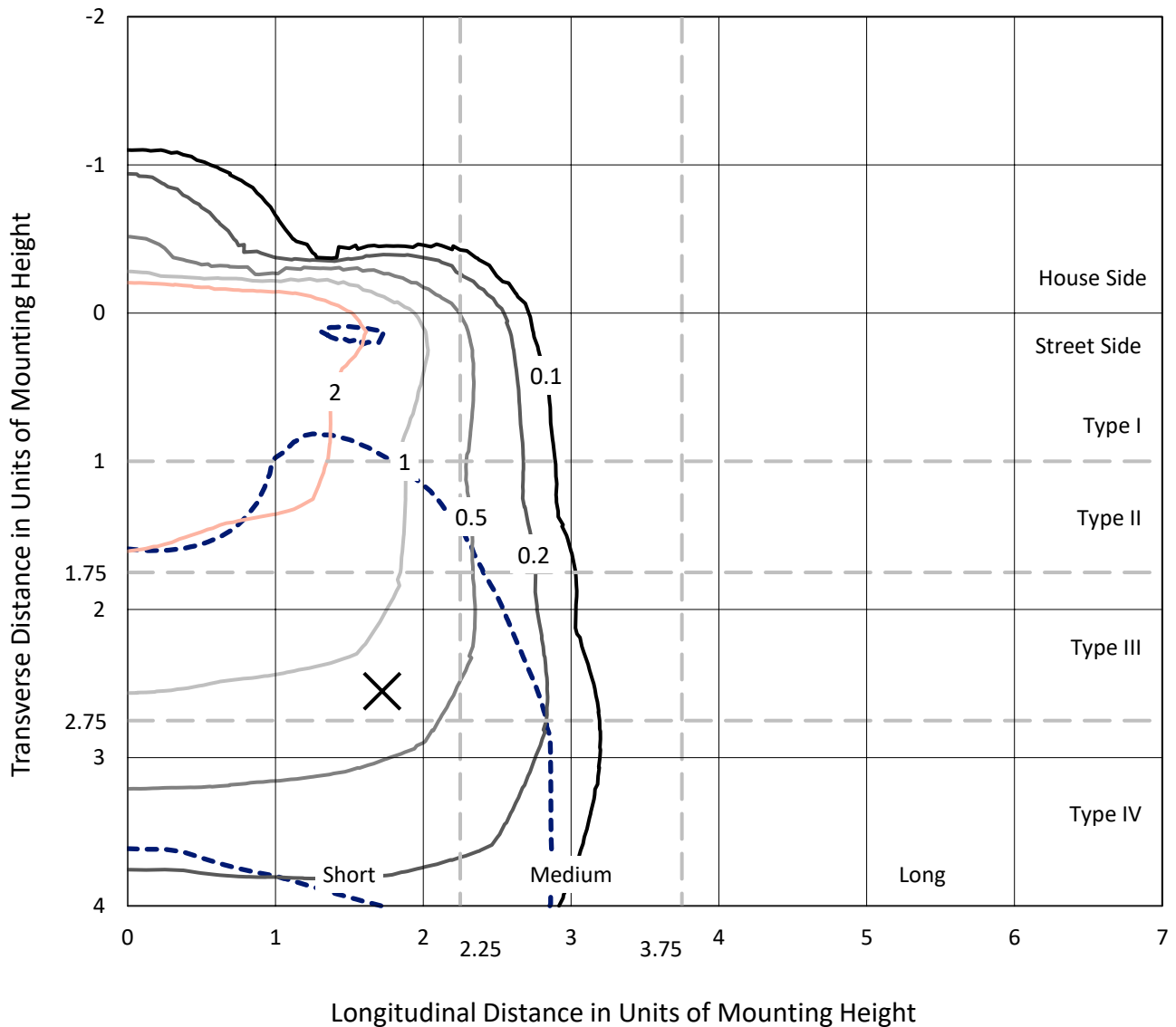
Lumens per Lamp: N/A
Luminaire Lumens: 11204 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4
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

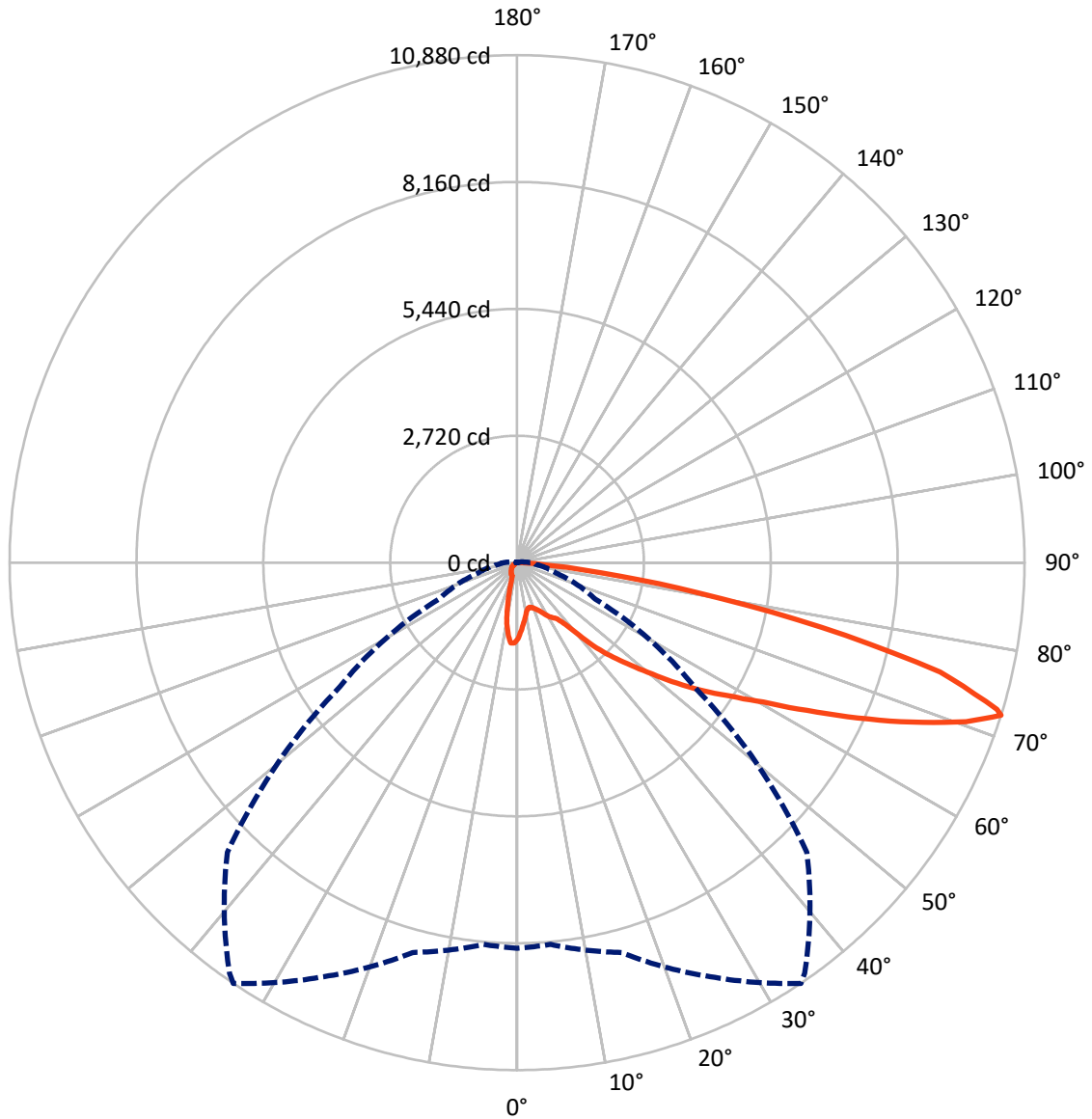
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	1147.0	0.0	1147.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10057.0	0.0	10057.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	11204.0	0.0	11204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.3
10°-20°	322.1	2.9
20°-30°	486.2	4.3
30°-40°	789.1	7.0
40°-50°	1483.8	13.2
50°-60°	2426.1	21.7
60°-70°	3225.2	28.8
70°-80°	2159.9	19.3
80°-90°	169.3	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°	11204.0	100.0
0°-180°	11204.0	100.0

Coefficient of Utilization



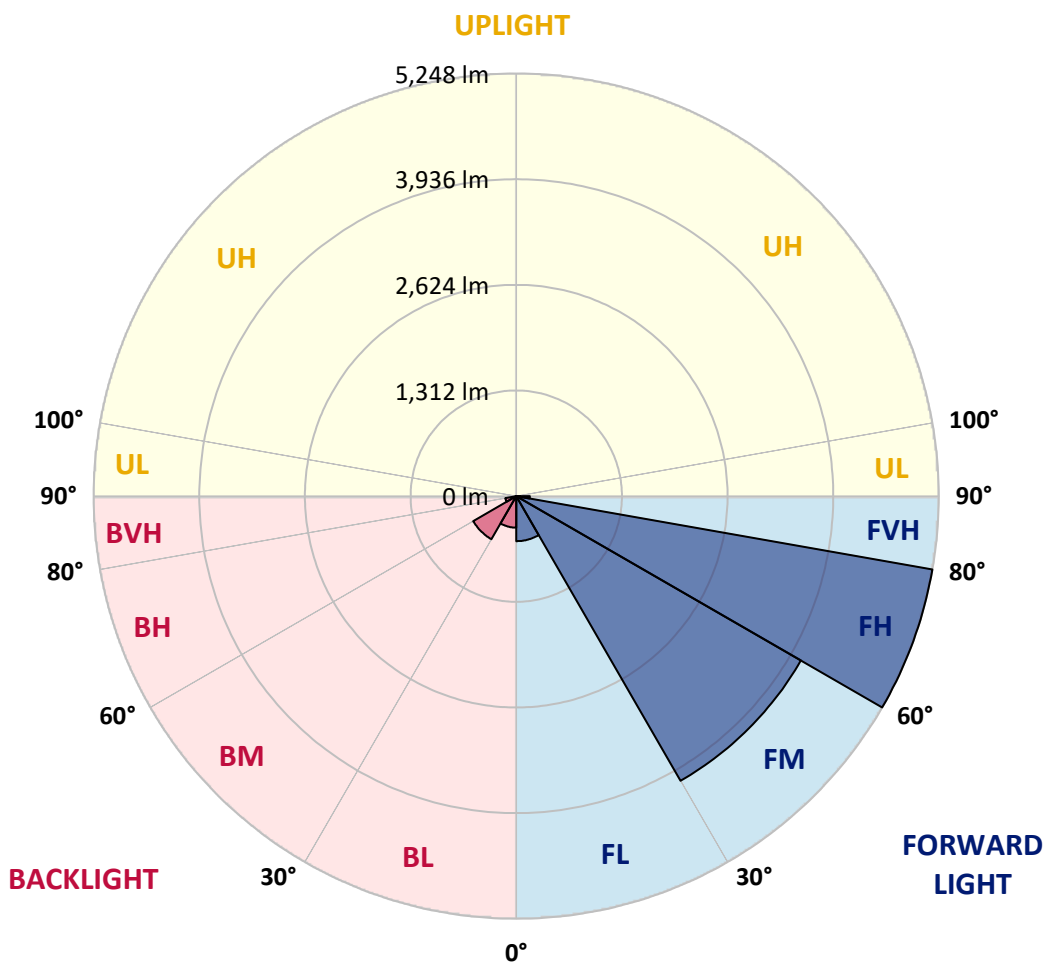
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.3	5.0			
FM (30°-60°)	4081.6	36.4			
FH (60°-80°)	5247.9	46.8			G3/7500
FVH (80°-90°)	168.2	1.5			G2/225
BL (0°-30°)	391.4	3.5	B1/500		
BM (30°-60°)	617.4	5.5	B1/1000		
BH (60°-80°)	137.2	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°	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2
2.5°	1449.6	1446.4	1456.1	1472.3	1488.5	1482.0	1512.8	1545.2	1567.9	1598.7	1635.9
5°	1266.6	1274.7	1284.4	1316.8	1337.9	1342.7	1399.4	1441.5	1511.2	1582.5	1648.9
7.5°	1099.8	1109.5	1128.9	1164.6	1208.3	1219.6	1276.3	1360.6	1451.3	1545.2	1653.7
10°	978.3	988.0	1009.1	1031.8	1090.1	1090.1	1167.8	1284.4	1402.7	1512.8	1655.3
12.5°	952.4	957.3	955.6	973.4	1010.7	1018.8	1094.9	1222.9	1360.6	1501.5	1681.3
15°	983.2	986.4	970.2	960.5	992.9	1001.0	1072.3	1185.6	1333.0	1508.0	1723.4
17.5°	1044.7	1033.4	1001.0	986.4	1013.9	1018.8	1085.2	1184.0	1329.8	1525.8	1772.0
20°	1080.4	1093.3	1036.6	1009.1	1048.0	1054.4	1125.7	1209.9	1346.0	1556.5	1840.0
22.5°	1143.5	1150.0	1073.9	1056.1	1093.3	1093.3	1174.3	1261.8	1384.9	1606.8	1921.0
25°	1232.6	1224.5	1135.4	1117.6	1153.2	1167.8	1248.8	1344.4	1444.8	1653.7	1995.5
27.5°	1302.3	1307.1	1234.2	1187.3	1247.2	1256.9	1344.4	1433.4	1490.1	1692.6	2086.2
30°	1405.9	1396.2	1318.4	1265.0	1339.5	1341.1	1425.3	1517.7	1577.6	1762.3	2222.2
32.5°	1529.0	1509.6	1420.5	1344.4	1404.3	1418.9	1504.7	1639.2	1713.7	1893.4	2432.8
35°	1789.8	1742.8	1597.0	1478.8	1483.7	1490.1	1623.0	1815.7	1901.5	2060.3	2714.6
37.5°	2170.4	2151.0	1985.8	1760.6	1674.8	1655.3	1804.4	2048.9	2155.8	2280.6	3080.7
40°	2547.8	2520.3	2366.4	2196.3	2040.8	2002.0	2076.5	2358.3	2455.5	2586.7	3456.5
42.5°	2967.3	2918.7	2737.3	2599.6	2502.5	2460.3	2431.2	2747.0	2857.2	2946.3	3824.1
45°	3391.7	3312.3	3049.9	2944.6	2892.8	2870.1	2866.9	3236.2	3302.6	3320.4	4232.3
47.5°	3764.2	3678.4	3440.3	3322.0	3283.2	3276.7	3458.1	3799.9	3748.0	3701.0	4687.5
50°	4050.9	3995.8	3824.1	3782.0	3752.9	3741.5	4165.9	4379.7	4140.0	4057.4	5087.5
52.5°	4494.7	4371.6	4177.2	4191.8	4293.9	4295.5	4883.4	4930.4	4465.6	4302.0	5464.9
55°	4849.4	4768.4	4609.7	4588.7	4857.5	4886.7	5526.5	5348.3	4647.0	4535.2	5604.2
57.5°	5267.3	5230.1	5115.1	5118.3	5400.1	5461.7	6098.2	5701.4	4797.6	4685.8	5625.3
60°	5871.5	5764.6	5704.6	5732.2	6064.2	6124.1	6652.2	5955.7	4870.5	4784.6	5573.4
62.5°	6538.8	6414.1	6349.3	6490.2	6974.5	6984.2	7073.3	6180.8	4825.1	4810.6	5239.8
65°	7342.2	7219.1	7167.2	7450.7	8025.7	7990.1	7664.5	6276.4	4681.0	4549.8	4363.5
67.5°	8142.3	8067.8	7960.9	8412.8	9128.7	9128.7	8278.4	6240.8	4303.6	3652.5	2853.9
70°	8521.3	8573.2	8743.2	9452.7	10212.3	10134.6	8884.1	5831.0	3203.8	1961.5	1122.5
72°	8268.6	8215.2	8654.1	9792.8	10879.6	10751.7	8782.1	4635.6	1851.3	860.1	390.4
72.5°	7834.6	7884.8	8488.9	9745.8	10754.9	10860.2	8532.7	4276.0	1522.5	685.1	294.8
75°	4804.1	4889.9	6336.3	8275.1	9371.7	9253.4	6600.3	2037.6	584.7	291.5	105.3
77.5°	1754.2	1825.4	3074.2	5207.4	6665.1	6590.6	3819.3	724.0	317.5	217.0	53.5
80°	456.8	494.0	1044.7	2402.0	3919.7	3924.6	1598.7	289.9	215.4	178.2	32.4
82.5°	90.7	100.4	320.7	934.6	1831.9	1807.6	505.4	155.5	162.0	145.8	22.7
85°	11.3	14.6	68.0	317.5	592.8	531.3	124.7	77.7	119.9	113.4	14.6
87.5°	1.6	1.6	16.2	72.9	124.7	121.5	25.9	24.3	53.5	69.6	8.1
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°	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2	1639.2
2.5°	1657.0	1663.4	1686.1	1705.6	1728.2	1734.7	1725.0	1741.2	1718.5	1731.5	1734.7
5°	1660.2	1697.5	1739.6	1767.1	1760.6	1744.4	1731.5	1687.7	1657.0	1645.6	1669.9
7.5°	1682.9	1725.0	1770.3	1770.3	1734.7	1650.5	1569.5	1491.8	1427.0	1394.6	1422.1
10°	1712.0	1755.8	1802.7	1741.2	1608.4	1454.5	1339.5	1193.7	1094.9	1043.1	1048.0
12.5°	1750.9	1812.5	1828.7	1686.1	1465.8	1237.5	1028.5	826.1	732.1	657.6	659.2
15°	1801.1	1861.1	1812.5	1566.3	1284.4	947.5	696.5	503.7	429.2	390.4	390.4
17.5°	1867.5	1912.9	1807.6	1456.1	1039.9	647.9	427.6	340.1	323.9	317.5	317.5
20°	1945.3	1979.3	1760.6	1284.4	772.6	416.3	314.2	304.5	306.1	302.9	302.9
22.5°	2032.7	2044.1	1707.2	1085.2	523.2	307.7	293.2	294.8	296.4	293.2	294.8
25°	2125.1	2094.3	1629.4	852.0	348.2	280.2	283.5	286.7	288.3	289.9	289.9
27.5°	2228.7	2167.2	1520.9	623.6	272.1	264.0	273.7	283.5	285.1	285.1	283.5
30°	2381.0	2278.9	1415.6	422.7	239.7	246.2	262.4	273.7	281.8	281.8	280.2
32.5°	2573.7	2395.6	1268.2	288.3	221.9	225.1	238.1	260.8	278.6	280.2	275.4
35°	2841.0	2536.5	1114.4	230.0	208.9	210.6	218.7	236.5	267.3	277.0	275.4
37.5°	3122.8	2696.8	923.2	207.3	199.2	197.6	202.5	217.0	244.6	268.9	270.5
40°	3422.5	2865.3	722.4	196.0	191.1	187.9	189.5	196.0	217.0	247.8	254.3
42.5°	3704.3	3017.5	542.6	184.6	183.0	179.8	179.8	181.4	192.7	213.8	217.0
45°	4008.8	3142.2	413.0	176.5	171.7	173.3	166.8	163.6	171.7	173.3	171.7
47.5°	4293.9	3267.0	330.4	166.8	162.0	162.0	153.9	147.4	147.4	132.8	131.2
50°	4561.1	3335.0	264.0	153.9	152.3	150.6	139.3	128.0	118.2	100.4	97.2
52.5°	4783.0	3331.8	204.1	137.7	142.5	137.7	119.9	103.7	89.1	72.9	69.6
55°	4849.4	3176.3	153.9	113.4	121.5	115.0	95.6	81.0	64.8	51.8	50.2
57.5°	4792.7	2939.8	116.6	87.5	93.9	87.5	72.9	59.9	45.4	35.6	32.4
60°	4603.2	2662.8	90.7	68.0	71.3	66.4	55.1	45.4	32.4	22.7	19.4
62.5°	4243.7	2316.2	69.6	53.5	51.8	51.8	42.1	34.0	22.7	13.0	11.3
65°	3482.4	1806.0	53.5	37.3	37.3	37.3	32.4	24.3	14.6	6.5	3.2
67.5°	2186.6	1051.2	43.7	29.2	27.5	27.5	22.7	16.2	8.1	1.6	0.0
70°	822.8	385.5	34.0	22.7	21.1	21.1	16.2	9.7	4.9	0.0	0.0
72°	283.5	147.4	27.5	16.2	16.2	14.6	11.3	8.1	3.2	0.0	0.0
72.5°	233.2	118.2	25.9	16.2	14.6	14.6	11.3	8.1	3.2	0.0	0.0
75°	84.2	48.6	17.8	11.3	9.7	9.7	8.1	4.9	1.6	0.0	0.0
77.5°	42.1	30.8	14.6	9.7	8.1	4.9	4.9	3.2	1.6	0.0	0.0
80°	25.9	19.4	8.1	6.5	4.9	3.2	1.6	1.6	0.0	0.0	0.0
82.5°	17.8	11.3	4.9	4.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	11.3	4.9	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	3.2	1.6	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)