

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: P484119

Luminaire Tested: **IFLD-S-SA2B-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484119
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

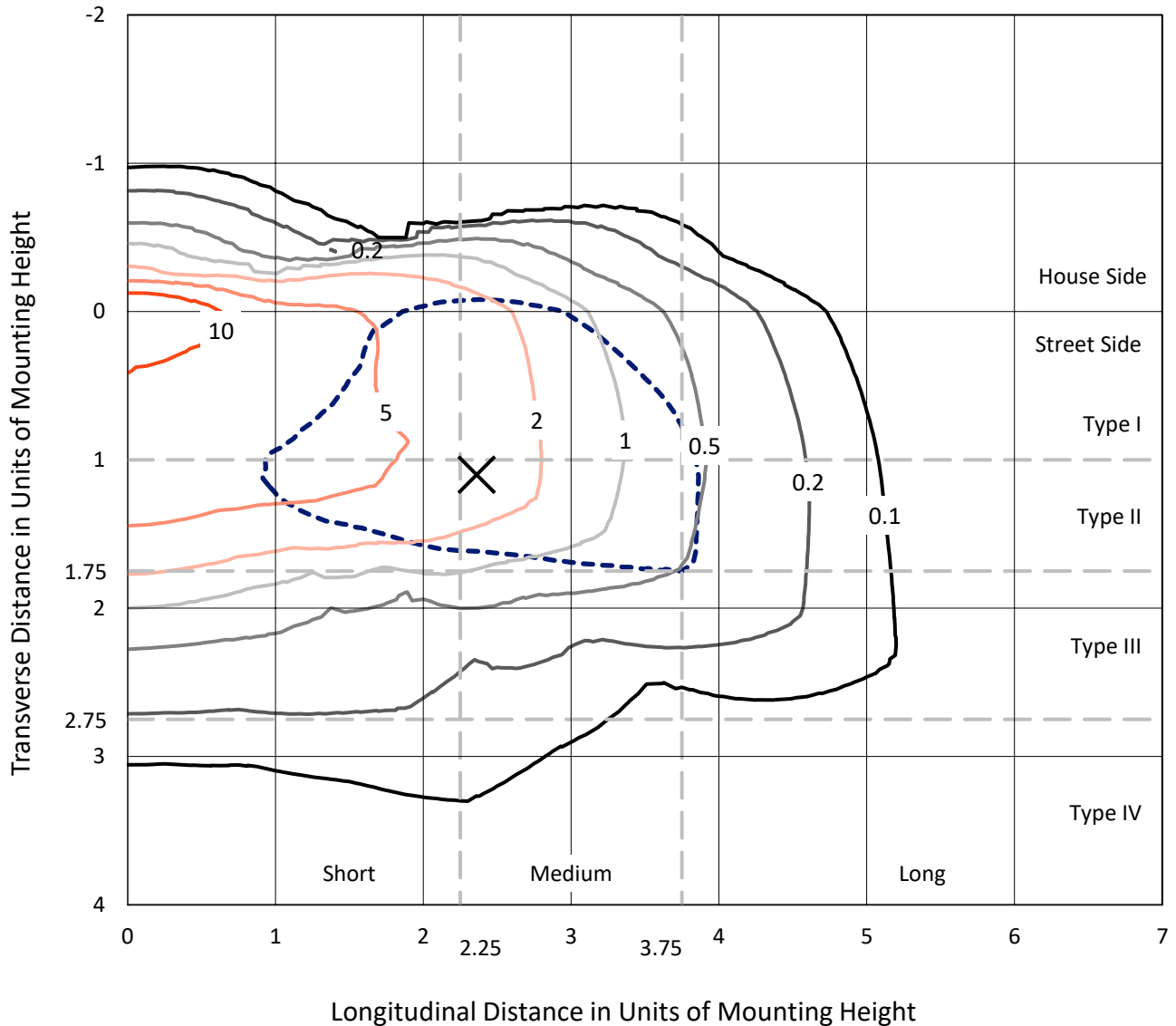
Lumens per Lamp: N/A
Luminaire Lumens: 6908.1 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

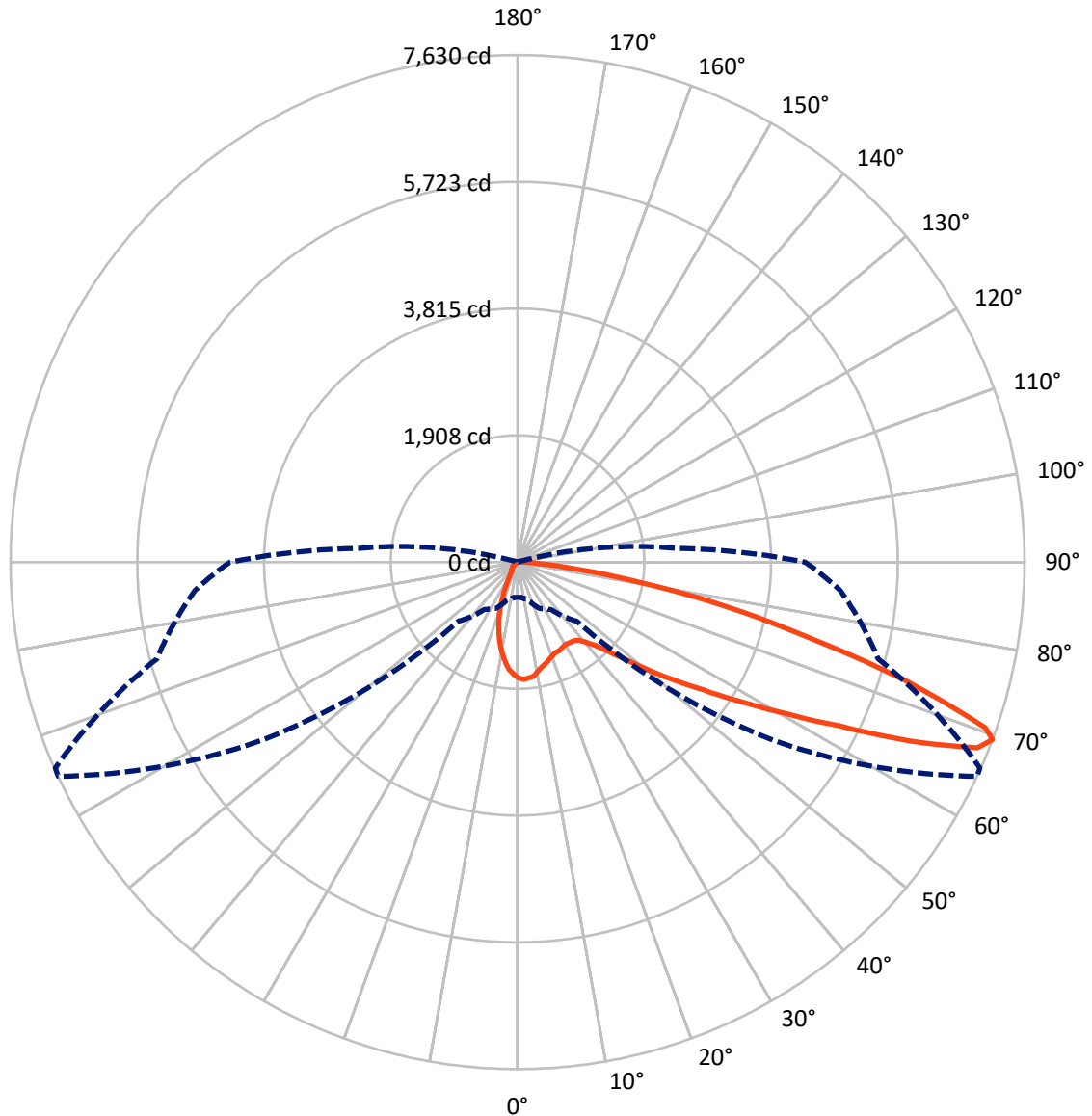
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	838.0	0.0	838.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	6070.1	0.0	6070.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	6908.1	0.0	6908.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	2.1
10°-20°	311.8	4.5
20°-30°	434.2	6.3
30°-40°	615.2	8.9
40°-50°	969.6	14.0
50°-60°	1573.3	22.8
60°-70°	1757.1	25.4
70°-80°	989.4	14.3
80°-90°	114.8	1.7
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°	6908.1	100.0
0°-180°	6908.1	100.0



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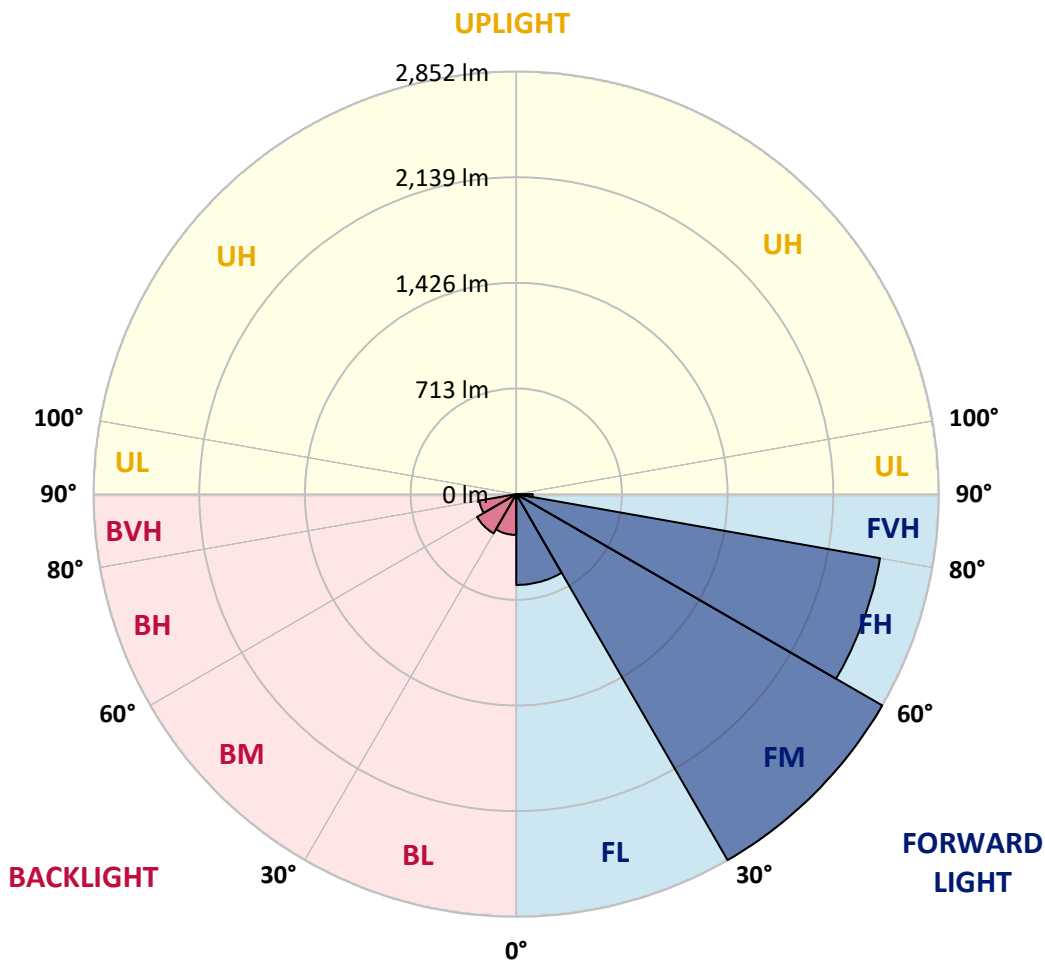
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.0	8.9			
FM (30°-60°)	2852.4	41.3			
FH (60°-80°)	2493.0	36.1			G2/5000
FVH (80°-90°)	111.6	1.6			G2/225
BL (0°-30°)	275.5	4.0	B1/500		
BM (30°-60°)	305.8	4.4	B1/1000		
BH (60°-80°)	253.5	3.7	B1/500		G1/500
BVH (80°-90°)	3.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1677.4	1690.4	1694.2	1707.2	1713.7	1741.7	1757.5	1766.8	1762.2	1772.4	1773.4
5°	1558.1	1550.6	1570.2	1584.2	1614.0	1662.5	1711.9	1750.1	1767.8	1784.5	1781.7
7.5°	1430.4	1426.7	1446.3	1478.0	1505.0	1563.7	1642.9	1737.0	1733.3	1774.3	1786.4
10°	1342.8	1346.6	1353.1	1384.8	1424.8	1484.5	1583.3	1670.9	1690.4	1777.1	1801.3
12.5°	1262.7	1269.2	1281.3	1313.9	1360.5	1422.0	1518.0	1620.5	1650.4	1761.2	1809.7
15°	1236.6	1221.7	1245.9	1270.1	1318.6	1373.6	1454.7	1582.3	1595.4	1742.6	1823.7
17.5°	1215.2	1205.8	1217.0	1236.6	1287.9	1332.6	1409.0	1541.3	1565.6	1735.2	1821.8
20°	1221.7	1213.3	1218.0	1232.9	1256.2	1298.1	1368.9	1502.2	1528.3	1700.7	1819.0
22.5°	1240.3	1246.9	1238.5	1242.2	1249.6	1271.1	1347.5	1474.2	1496.6	1694.2	1834.9
25°	1324.2	1313.0	1301.8	1297.2	1253.4	1262.7	1341.0	1472.4	1488.2	1670.9	1821.8
27.5°	1411.8	1402.5	1397.8	1370.8	1311.2	1283.2	1341.9	1446.3	1467.7	1661.5	1806.0
30°	1518.0	1530.1	1511.5	1478.9	1396.0	1327.0	1352.2	1433.2	1463.0	1626.1	1795.7
32.5°	1629.9	1636.4	1645.7	1621.5	1514.3	1393.2	1382.9	1445.3	1447.2	1626.1	1772.4
35°	1756.6	1747.3	1771.5	1773.4	1679.2	1510.6	1441.6	1453.7	1473.3	1618.7	1764.0
37.5°	1865.6	1881.5	1909.4	1954.1	1857.2	1676.4	1532.9	1492.9	1501.3	1653.2	1770.6
40°	1984.9	2000.7	2064.1	2108.8	2053.9	1862.8	1671.8	1584.2	1590.7	1704.4	1804.1
42.5°	2116.3	2147.0	2222.5	2300.8	2285.9	2099.5	1850.7	1718.4	1715.6	1832.1	1873.1
45°	2294.3	2335.3	2417.3	2507.7	2520.7	2370.7	2089.3	1918.7	1928.1	1998.9	2015.7
47.5°	2542.2	2540.3	2620.4	2721.1	2796.6	2652.1	2374.4	2188.0	2187.1	2262.6	2227.2
50°	2781.7	2782.6	2804.0	2920.5	3116.2	3042.6	2727.6	2545.9	2535.6	2572.9	2516.1
52.5°	2892.5	2879.5	2863.7	3004.4	3362.2	3534.6	3174.9	2951.3	2942.9	2920.5	2905.6
55°	2776.1	2780.7	2779.8	2926.1	3491.7	4053.7	3748.9	3397.6	3383.6	3313.8	3334.3
57.5°	2402.4	2387.5	2420.1	2648.4	3343.6	4407.8	4569.9	3960.5	3924.1	3692.1	3645.5
60°	1788.3	1792.9	1820.0	2089.3	2975.5	4482.3	5355.5	4621.2	4464.6	3958.6	3894.3
62.5°	1248.7	1239.4	1249.6	1400.6	2127.5	4184.1	5886.7	5424.5	5273.5	4261.5	4224.2
65°	893.7	881.6	922.6	1014.8	1277.6	3199.1	5962.2	6494.3	6359.1	4745.1	4655.7
67.5°	643.0	641.1	688.7	856.4	907.6	1842.3	5403.0	7463.4	7381.4	5319.2	4918.4
69°	532.1	533.0	578.7	766.9	866.6	1258.0	4649.1	7630.2	7615.3	5615.5	4869.1
70°	464.1	467.8	520.9	713.8	849.9	1034.4	4008.0	7466.2	7451.3	5673.3	4706.0
72.5°	286.1	288.9	358.8	572.2	807.9	844.3	2396.8	6108.5	6159.7	5408.6	4054.6
75°	137.0	137.9	188.2	413.8	779.0	800.5	1284.1	4507.5	4615.6	4366.8	3168.4
77.5°	72.7	72.7	90.4	219.9	630.9	753.0	762.3	3179.6	3269.0	2761.2	1801.3
80°	36.3	37.3	55.0	114.6	391.4	738.0	595.5	1896.4	1944.8	1126.6	561.0
82.5°	14.0	14.9	26.1	69.0	203.1	623.4	522.8	932.8	920.7	263.7	137.0
85°	1.9	1.9	9.3	41.0	86.7	274.9	431.5	389.5	376.5	57.8	66.2
87.5°	0.0	0.0	1.9	12.1	26.1	80.1	166.8	107.2	119.3	15.8	32.6
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°	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1768.7	1749.1	1719.3	1690.4	1659.7	1622.4	1581.4	1566.5	1540.4	1538.5	1553.4
5°	1766.8	1735.2	1683.0	1621.5	1533.9	1467.7	1396.0	1343.8	1303.7	1277.6	1284.1
7.5°	1776.2	1738.0	1647.6	1515.2	1402.5	1271.1	1160.2	1083.8	1013.9	979.4	975.7
10°	1761.2	1710.0	1577.7	1392.2	1226.4	1042.8	880.6	778.1	673.7	635.5	637.4
12.5°	1769.6	1697.9	1502.2	1265.5	1037.2	798.6	604.8	465.0	367.2	335.5	331.7
15°	1775.2	1671.8	1429.5	1113.6	827.5	544.2	350.4	263.7	233.0	227.4	226.4
17.5°	1753.8	1640.1	1327.0	963.6	613.2	330.8	233.0	215.3	209.7	205.9	204.1
20°	1752.9	1621.5	1238.5	809.8	409.1	225.5	201.3	194.8	186.4	183.6	183.6
22.5°	1737.0	1582.3	1132.2	641.1	260.9	193.8	180.8	170.5	161.2	157.5	156.6
25°	1732.4	1536.7	1032.5	481.8	198.5	173.3	160.3	145.4	134.2	128.6	125.8
27.5°	1719.3	1497.5	931.9	339.2	173.3	154.7	137.9	122.1	109.0	100.6	99.7
30°	1672.7	1456.5	820.1	234.8	157.5	137.0	118.3	99.7	86.7	81.1	79.2
32.5°	1653.2	1418.3	698.0	180.8	143.5	121.1	99.7	82.9	72.7	67.1	66.2
35°	1629.9	1362.4	579.6	157.5	130.5	105.3	83.9	69.9	61.5	56.8	56.8
37.5°	1632.6	1317.7	468.7	142.6	116.5	90.4	71.8	59.6	52.2	47.5	47.5
40°	1624.3	1282.3	364.4	129.5	103.4	77.3	60.6	50.3	43.8	39.1	38.2
42.5°	1662.5	1272.9	274.9	118.3	90.4	66.2	52.2	42.9	36.3	30.8	30.8
45°	1726.8	1287.9	214.3	108.1	77.3	56.8	44.7	35.4	28.9	25.2	24.2
47.5°	1898.2	1346.6	167.7	99.7	66.2	49.4	37.3	28.9	23.3	19.6	18.6
50°	2147.0	1478.0	142.6	87.6	55.9	41.9	30.8	22.4	18.6	14.9	14.0
52.5°	2501.2	1698.8	129.5	77.3	46.6	34.5	24.2	17.7	14.0	11.2	10.3
55°	2887.0	1974.6	117.4	65.2	39.1	28.0	19.6	14.0	10.3	7.5	6.5
57.5°	3188.0	2213.2	107.2	54.0	31.7	22.4	14.9	10.3	7.5	4.7	3.7
60°	3516.9	2380.9	94.1	42.9	26.1	16.8	11.2	7.5	5.6	2.8	2.8
62.5°	3856.1	2577.6	77.3	33.5	20.5	13.0	8.4	5.6	3.7	0.9	0.9
65°	4327.6	2731.3	59.6	26.1	15.8	9.3	6.5	4.7	1.9	0.0	0.0
67.5°	4460.9	2655.9	43.8	20.5	11.2	6.5	4.7	2.8	0.9	0.0	0.0
69°	4327.6	2392.1	38.2	17.7	9.3	5.6	3.7	1.9	0.9	0.0	0.0
70°	4084.4	2187.1	33.5	14.9	8.4	5.6	2.8	1.9	0.9	0.0	0.0
72.5°	3416.3	1677.4	26.1	11.2	6.5	4.7	2.8	1.9	0.0	0.0	0.0
75°	2505.8	1036.2	19.6	8.4	5.6	3.7	2.8	1.9	0.0	0.0	0.0
77.5°	1342.8	378.3	14.0	5.6	3.7	2.8	2.8	1.9	0.0	0.0	0.0
80°	368.1	111.8	10.3	3.7	2.8	1.9	1.9	0.9	0.0	0.0	0.0
82.5°	100.6	28.9	6.5	3.7	2.8	1.9	0.9	0.0	0.0	0.0	0.0
85°	54.0	11.2	3.7	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	3.7	2.8	1.9	1.9	0.9	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)