

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: P484665

Luminaire Tested: **IFLD-S-SA2B-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484665
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

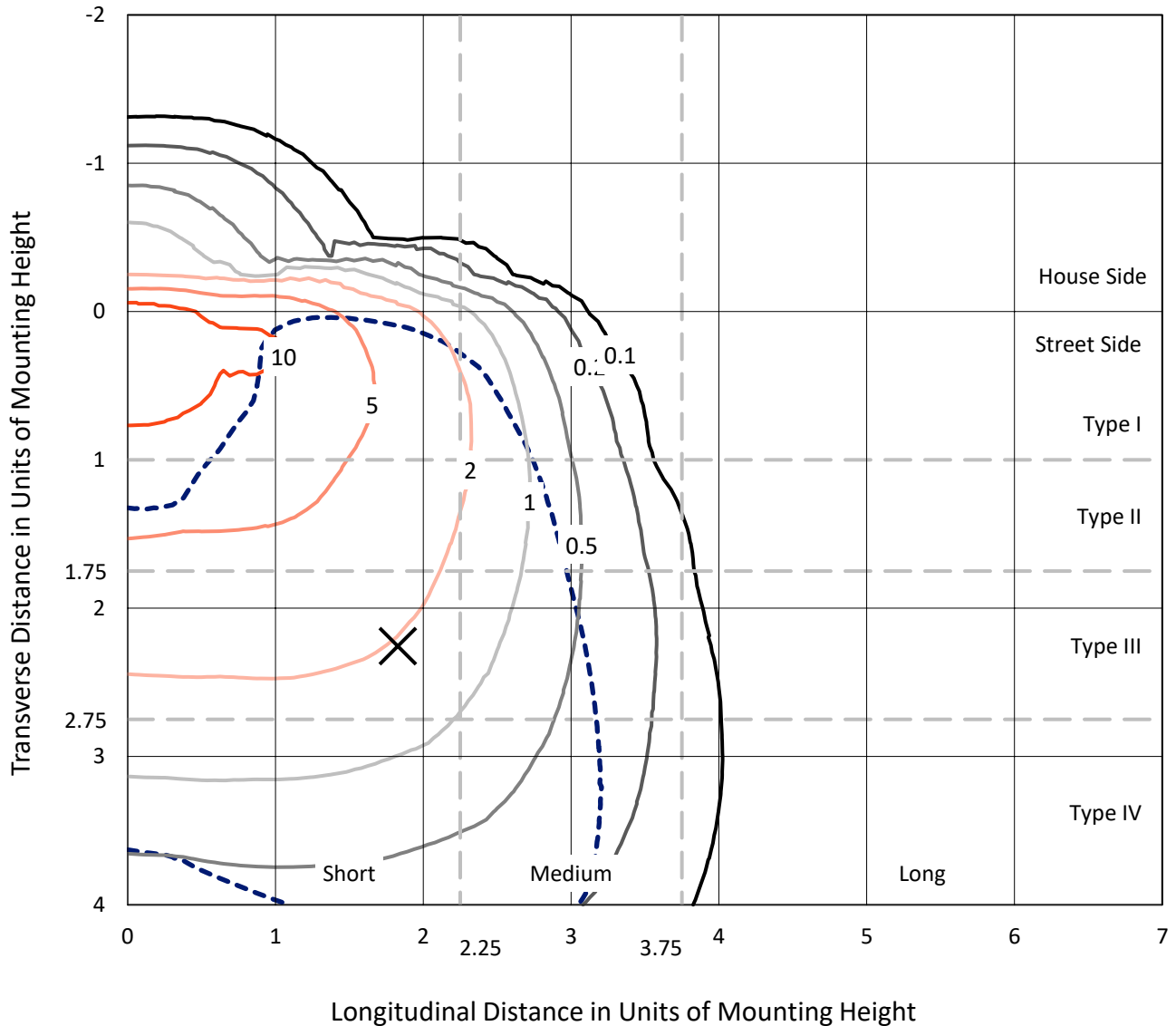
Lumens per Lamp: N/A
Luminaire Lumens: 7888.3 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

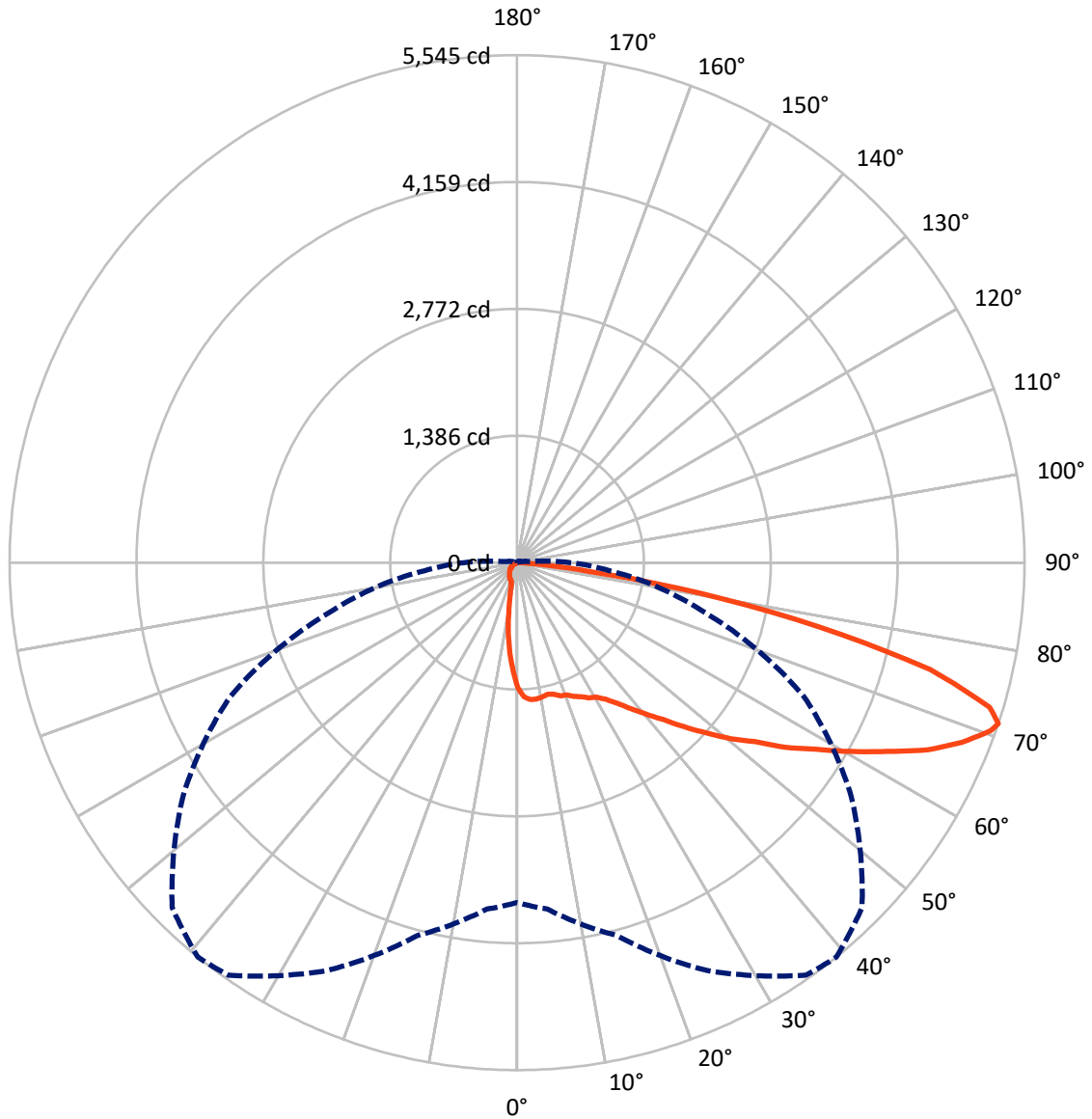
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	593.9	0.0	593.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7294.5	0.0	7294.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	7888.3	0.0	7888.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.5
10°-20°	282.5	3.6
20°-30°	453.6	5.8
30°-40°	694.3	8.8
40°-50°	1114.5	14.1
50°-60°	1637.0	20.8
60°-70°	2061.8	26.1
70°-80°	1376.0	17.4
80°-90°	153.8	1.9
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°	7888.3	100.0
0°-180°	7888.3	100.0



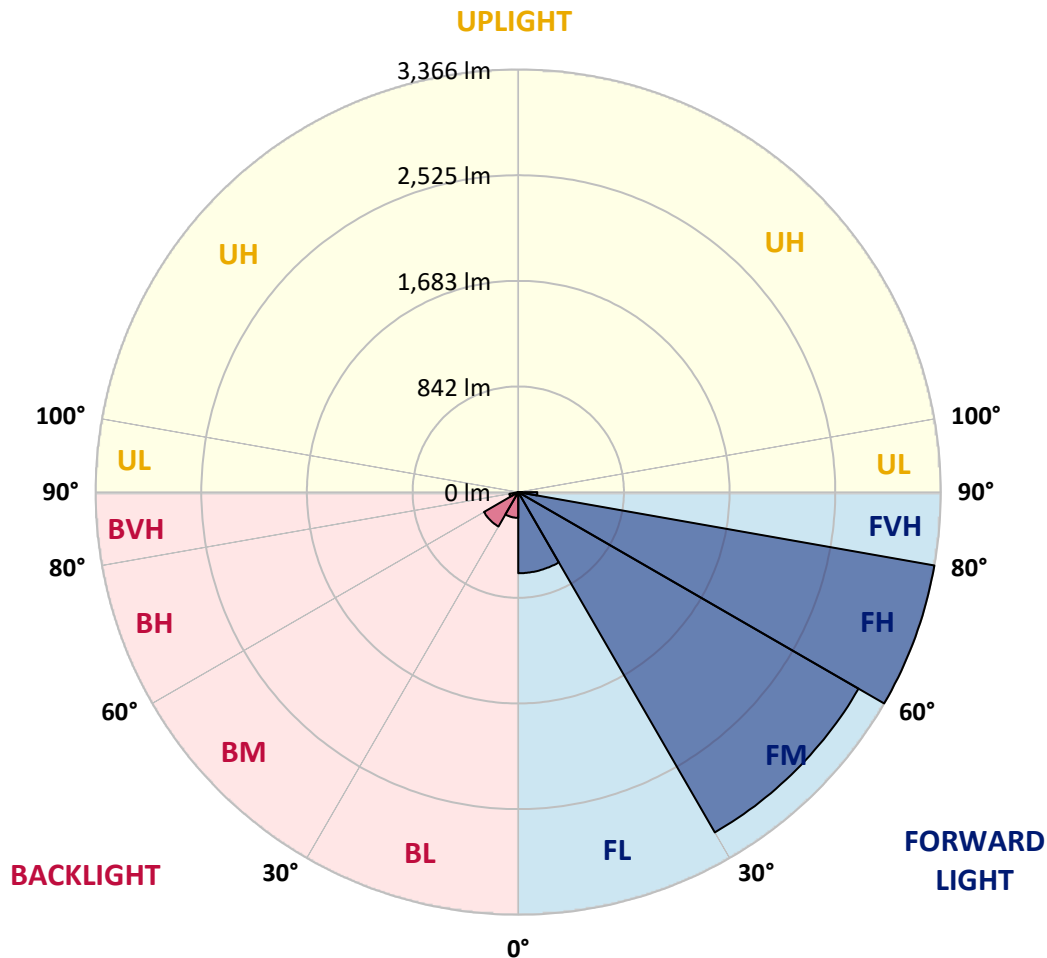
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.9	8.2			
FM (30°-60°)	3130.2	39.7			
FH (60°-80°)	3366.3	42.7			G2/5000
FVH (80°-90°)	152.1	1.9			G2/225
BL (0°-30°)	205.0	2.6	B1/500		
BM (30°-60°)	315.7	4.0	B1/1000		
BH (60°-80°)	71.5	0.9	B0/110		G0/110
BVH (80°-90°)	1.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0
2.5°	1479.6	1494.1	1479.6	1473.4	1467.2	1468.2	1451.6	1454.8	1435.1	1409.2	1388.5
5°	1526.1	1545.8	1530.3	1523.0	1522.0	1502.3	1494.1	1474.4	1450.6	1410.3	1385.4
7.5°	1522.0	1517.9	1525.1	1518.9	1505.5	1505.5	1496.1	1468.2	1444.4	1398.9	1356.5
10°	1491.0	1503.4	1497.2	1489.9	1493.0	1494.1	1476.5	1456.8	1449.6	1404.1	1334.7
12.5°	1487.9	1467.2	1489.9	1491.0	1477.5	1476.5	1474.4	1469.2	1446.5	1405.1	1339.9
15°	1477.5	1469.2	1492.0	1493.0	1496.1	1493.0	1496.1	1492.0	1469.2	1445.4	1362.7
17.5°	1485.8	1476.5	1508.6	1524.1	1516.8	1531.3	1526.1	1507.5	1487.9	1459.9	1384.4
20°	1487.9	1501.3	1536.5	1542.7	1565.5	1541.7	1540.6	1521.0	1508.6	1478.6	1397.8
22.5°	1526.1	1532.4	1575.8	1589.3	1590.3	1587.2	1561.3	1538.6	1533.4	1496.1	1401.0
25°	1584.1	1605.8	1625.5	1633.8	1636.9	1622.4	1595.5	1566.5	1554.1	1530.3	1433.0
27.5°	1686.5	1673.1	1690.7	1703.1	1667.9	1673.1	1638.9	1614.1	1596.5	1575.8	1470.3
30°	1777.6	1765.2	1766.2	1764.1	1734.1	1706.2	1696.9	1653.4	1631.7	1640.0	1528.2
32.5°	1859.3	1832.4	1855.2	1844.8	1789.0	1780.7	1773.4	1718.6	1722.7	1761.0	1615.1
35°	1934.8	1925.5	1944.2	1925.5	1888.3	1886.2	1879.0	1831.4	1854.1	1909.0	1764.1
37.5°	2004.2	2007.3	2030.0	2020.7	2023.8	2025.9	2021.8	1971.1	2036.2	2159.4	1937.9
40°	2068.3	2064.2	2120.1	2149.0	2155.2	2178.0	2178.0	2165.6	2265.9	2404.6	2179.0
42.5°	2136.6	2147.0	2219.4	2268.0	2327.0	2346.6	2373.5	2379.8	2535.0	2693.3	2425.3
45°	2248.4	2230.8	2322.8	2437.7	2489.4	2558.8	2600.1	2635.3	2822.6	3039.9	2671.5
47.5°	2390.1	2354.9	2435.6	2602.2	2722.2	2779.1	2853.6	2900.2	3083.3	3307.9	2904.3
50°	2547.4	2511.2	2550.5	2780.2	2919.9	3023.3	3118.5	3177.5	3398.9	3607.9	3074.0
52.5°	2725.3	2692.2	2698.4	2965.4	3171.3	3246.8	3372.0	3460.0	3680.3	3789.0	3134.0
55°	2914.7	2906.4	2886.7	3146.4	3391.7	3561.4	3636.9	3742.4	3969.0	3887.3	3199.2
57.5°	3105.1	3079.2	3107.1	3386.5	3745.5	3846.9	3951.4	4014.5	4129.4	3973.2	3174.4
60°	3284.1	3286.1	3325.4	3647.2	4046.6	4190.4	4284.6	4246.3	4293.9	4010.4	3117.5
62.5°	3435.1	3431.0	3530.3	3940.0	4445.0	4542.2	4612.6	4441.9	4370.5	4046.6	3018.1
65°	3570.7	3617.2	3773.5	4288.7	4819.5	4931.3	4888.8	4627.1	4445.0	3940.0	2738.8
67.5°	3673.1	3742.4	4013.5	4616.7	5163.0	5241.7	5182.7	4767.8	4357.0	3522.0	2230.8
70°	3733.1	3803.5	4185.3	4889.9	5437.2	5494.1	5355.5	4659.1	3843.8	2550.5	1391.6
71°	3714.5	3800.4	4218.4	4918.8	5502.4	5544.8	5329.6	4458.4	3456.9	2135.6	1015.0
72.5°	3545.8	3626.5	4080.8	4898.2	5423.8	5397.9	5127.9	3976.3	2721.2	1361.6	524.6
75°	2605.3	2692.2	3502.4	4237.0	4841.2	4663.3	4150.1	2790.5	1419.6	417.0	153.1
77.5°	1297.5	1312.0	2173.9	3076.1	3551.0	3374.1	2781.2	1556.2	530.8	123.1	76.6
80°	598.0	602.2	815.3	1593.4	2147.0	2020.7	1558.2	767.7	240.0	65.2	60.0
82.5°	407.7	413.9	491.5	660.1	932.2	786.4	631.2	491.5	137.6	39.3	59.0
85°	74.5	68.3	275.2	349.7	360.1	244.2	218.3	425.3	51.7	22.8	51.7
87.5°	0.0	1.0	38.3	142.8	128.3	56.9	74.5	103.5	5.2	7.2	9.3
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°	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0
2.5°	1370.9	1359.6	1321.3	1278.9	1240.6	1210.6	1172.3	1154.7	1126.8	1111.2	1110.2
5°	1351.3	1320.2	1254.0	1182.6	1103.0	1036.7	963.3	921.9	874.3	859.8	856.7
7.5°	1318.2	1273.7	1176.4	1076.1	954.0	837.1	747.0	650.8	591.8	567.0	557.7
10°	1297.5	1243.7	1111.2	961.2	790.5	626.0	499.7	397.3	343.5	317.6	311.4
12.5°	1297.5	1239.5	1058.5	851.5	624.9	428.4	309.4	250.4	232.8	226.6	226.6
15°	1294.4	1231.3	1007.8	738.8	462.5	287.6	230.7	218.3	216.2	215.2	214.2
17.5°	1309.9	1216.8	956.0	617.7	327.0	226.6	212.1	210.0	208.0	208.0	205.9
20°	1321.3	1208.5	894.0	489.4	244.2	210.0	203.8	200.7	199.7	198.7	200.7
22.5°	1312.0	1196.1	817.4	366.3	213.1	199.7	195.6	192.4	190.4	190.4	191.4
25°	1329.6	1184.7	740.8	276.3	199.7	190.4	186.2	184.2	183.1	182.1	180.0
27.5°	1353.4	1189.9	649.8	222.5	188.3	181.1	176.9	174.9	173.8	171.8	173.8
30°	1382.3	1188.8	549.4	194.5	178.0	170.7	166.6	165.5	163.5	162.4	163.5
32.5°	1432.0	1215.7	445.9	180.0	166.6	160.4	156.2	155.2	154.2	153.1	152.1
35°	1538.6	1248.9	348.7	168.7	156.2	149.0	145.9	143.8	142.8	141.8	140.7
37.5°	1670.0	1322.3	265.9	158.3	145.9	138.6	135.5	134.5	130.4	129.3	128.3
40°	1834.5	1401.0	204.9	146.9	136.6	129.3	126.2	123.1	118.0	115.9	113.8
42.5°	2039.3	1477.5	168.7	136.6	126.2	121.1	115.9	110.7	106.6	102.4	100.4
45°	2244.2	1566.5	148.0	127.3	118.0	111.7	107.6	100.4	93.1	86.9	85.9
47.5°	2414.9	1598.6	135.5	116.9	109.7	104.5	98.3	89.0	78.6	72.4	71.4
50°	2542.2	1579.9	123.1	106.6	100.4	95.2	86.9	75.5	65.2	59.0	56.9
52.5°	2567.0	1498.2	111.7	98.3	91.1	84.8	75.5	63.1	51.7	45.5	44.5
55°	2549.4	1362.7	102.4	91.1	82.8	73.5	63.1	50.7	40.4	34.1	33.1
57.5°	2513.2	1202.3	92.1	81.7	72.4	63.1	51.7	41.4	30.0	23.8	23.8
60°	2390.1	984.0	81.7	71.4	62.1	53.8	42.4	30.0	20.7	15.5	14.5
62.5°	2218.3	756.3	71.4	61.0	53.8	44.5	33.1	21.7	12.4	8.3	8.3
65°	1904.8	529.8	60.0	50.7	44.5	36.2	24.8	13.5	7.2	3.1	3.1
67.5°	1447.5	328.0	49.7	42.4	38.3	29.0	17.6	8.3	3.1	1.0	0.0
70°	830.8	170.7	39.3	34.1	30.0	21.7	12.4	4.1	2.1	0.0	0.0
71°	580.5	126.2	35.2	30.0	26.9	19.7	10.3	3.1	1.0	0.0	0.0
72.5°	290.7	83.8	30.0	24.8	21.7	15.5	8.3	3.1	1.0	0.0	0.0
75°	103.5	53.8	20.7	16.6	15.5	11.4	5.2	2.1	1.0	0.0	0.0
77.5°	71.4	43.5	14.5	10.3	10.3	7.2	3.1	1.0	1.0	0.0	0.0
80°	65.2	23.8	9.3	6.2	5.2	4.1	2.1	1.0	0.0	0.0	0.0
82.5°	65.2	17.6	5.2	4.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0
85°	45.5	9.3	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	3.1	2.1	1.0	1.0	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)