

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: P484742

Luminaire Tested: **IFLD-S-SA2A-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484742
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

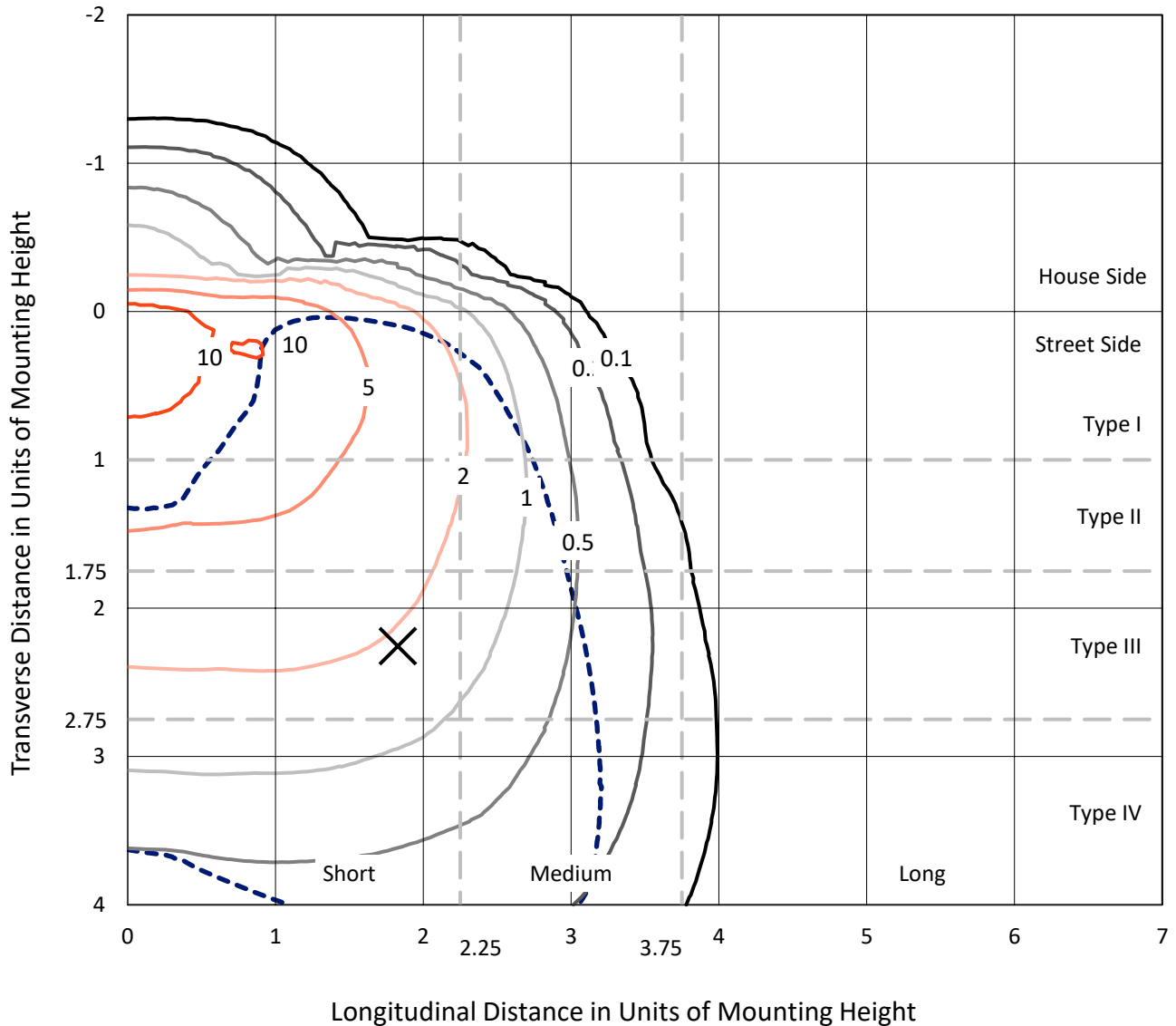
Lumens per Lamp: N/A
Luminaire Lumens: 7522.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

REPORT NUMBER: P484742
 CATALOG NUMBER: IFLD-S-SA2A-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

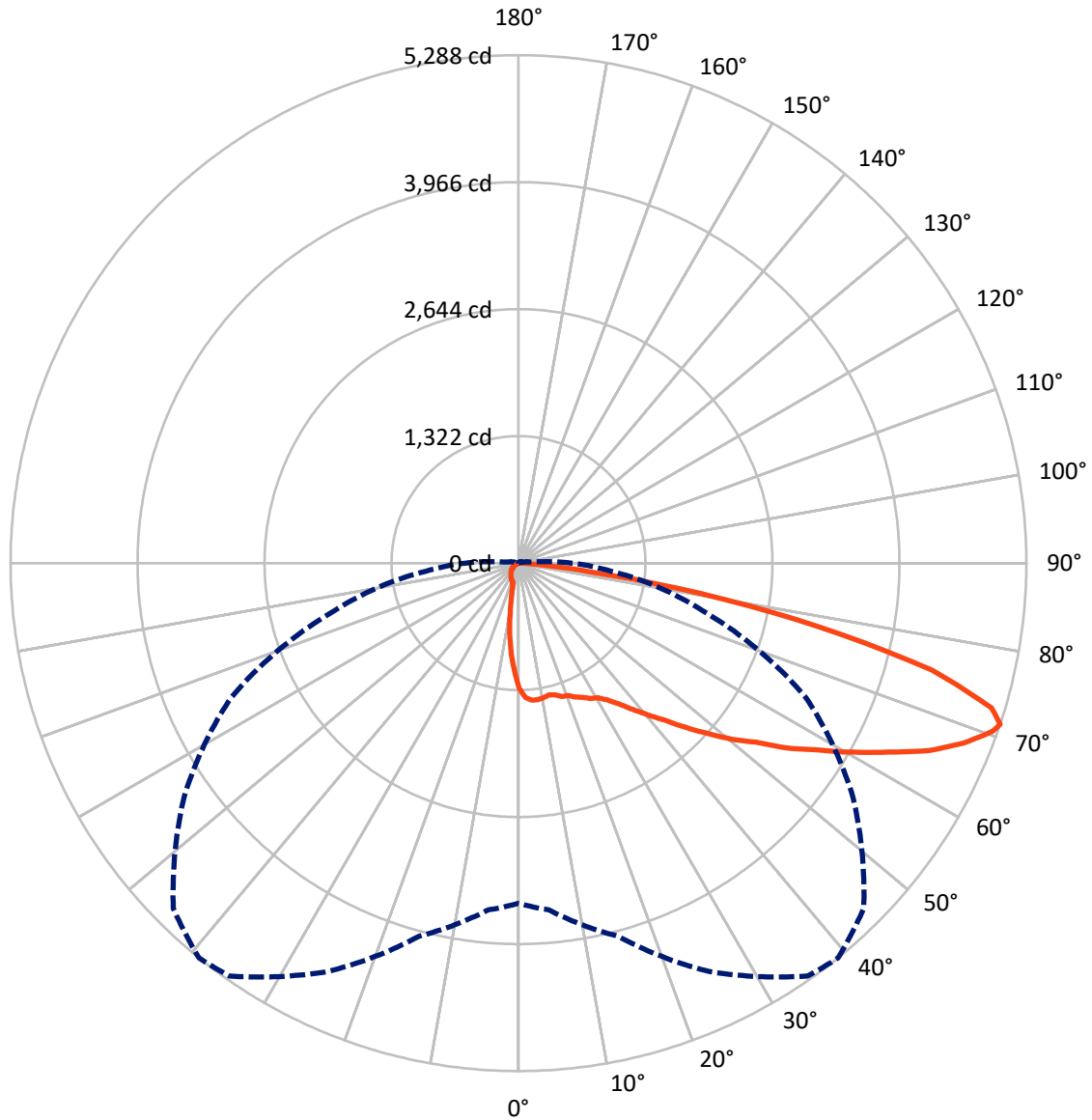
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P484742
CATALOG NUMBER: IFLD-S-SA2A-735-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484742
 CATALOG NUMBER: IFLD-S-SA2A-735-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.3	0.0	566.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6956.1	0.0	6956.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	7522.4	0.0	7522.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	1.5
10°-20°	269.4	3.6
20°-30°	432.5	5.7
30°-40°	662.1	8.8
40°-50°	1062.8	14.1
50°-60°	1561.1	20.8
60°-70°	1966.1	26.1
70°-80°	1312.2	17.4
80°-90°	146.6	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°	7522.4	100.0
0°-180°	7522.4	100.0

Coefficient of Utilization



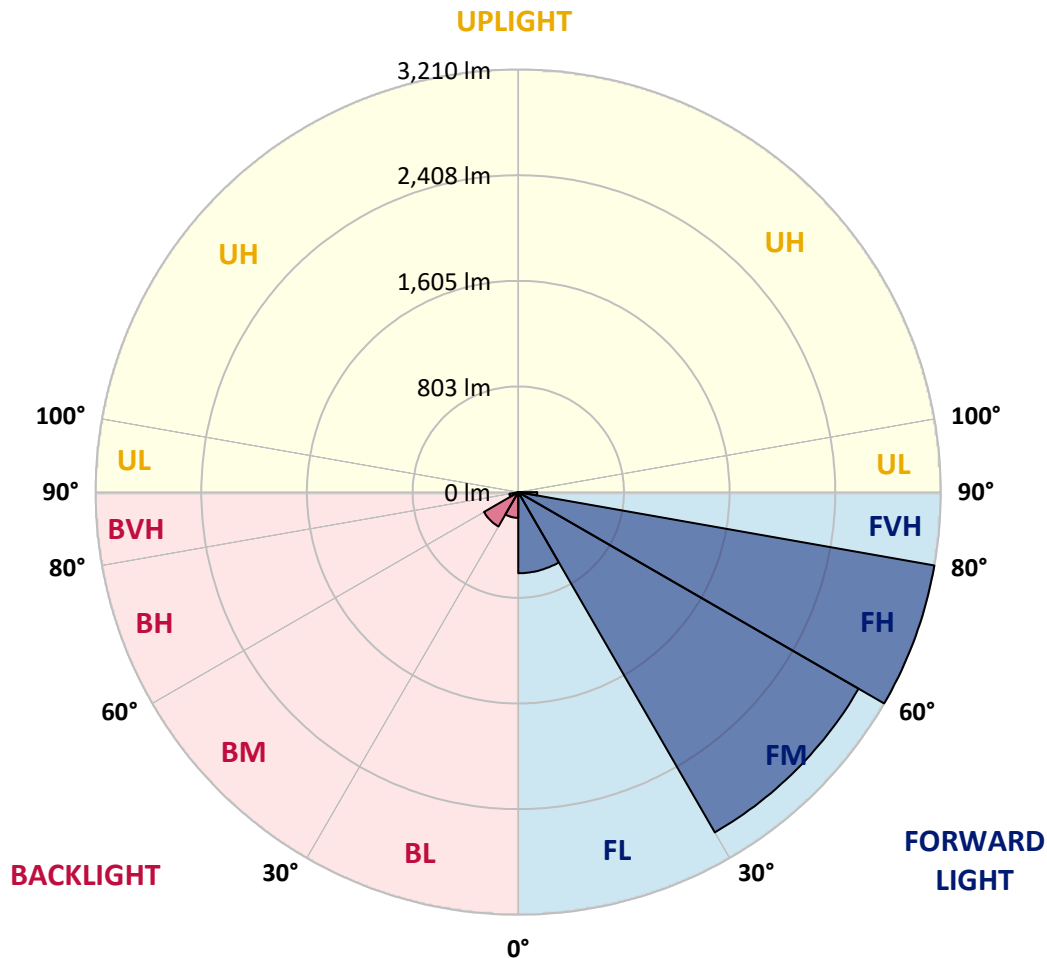
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.9	8.2			
FM (30°-60°)	2985.0	39.7			
FH (60°-80°)	3210.1	42.7			G2/5000
FVH (80°-90°)	145.0	1.9			G2/225
BL (0°-30°)	195.5	2.6	B1/500		
BM (30°-60°)	301.0	4.0	B1/1000		
BH (60°-80°)	68.2	0.9	B0/110		G0/110
BVH (80°-90°)	1.6	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





REPORT NUMBER: P484742

CATALOG NUMBER: IFLD-S-SA2A-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3
2.5°	1411.0	1424.8	1411.0	1405.0	1399.1	1400.1	1384.3	1387.3	1368.5	1343.9	1324.1
5°	1455.4	1474.1	1459.3	1452.4	1451.4	1432.7	1424.8	1406.0	1383.3	1344.8	1321.2
7.5°	1451.4	1447.5	1454.4	1448.4	1435.6	1435.6	1426.7	1400.1	1377.4	1334.0	1293.5
10°	1421.8	1433.6	1427.7	1420.8	1423.8	1424.8	1408.0	1389.2	1382.3	1338.9	1272.8
12.5°	1418.8	1399.1	1420.8	1421.8	1409.0	1408.0	1406.0	1401.1	1379.4	1339.9	1277.7
15°	1409.0	1401.1	1422.8	1423.8	1426.7	1423.8	1426.7	1422.8	1401.1	1378.4	1299.5
17.5°	1416.9	1408.0	1438.6	1453.4	1446.5	1460.3	1455.4	1437.6	1418.8	1392.2	1320.2
20°	1418.8	1431.7	1465.2	1471.1	1492.8	1470.2	1469.2	1450.4	1438.6	1410.0	1333.0
22.5°	1455.4	1461.3	1502.7	1515.5	1516.5	1513.6	1488.9	1467.2	1462.3	1426.7	1336.0
25°	1510.6	1531.3	1550.1	1558.0	1560.9	1547.1	1521.5	1493.8	1482.0	1459.3	1366.6
27.5°	1608.3	1595.5	1612.2	1624.1	1590.5	1595.5	1562.9	1539.2	1522.4	1502.7	1402.1
30°	1695.1	1683.3	1684.3	1682.3	1653.7	1627.0	1618.2	1576.7	1556.0	1563.9	1457.3
32.5°	1773.1	1747.4	1769.1	1759.2	1706.0	1698.1	1691.2	1638.9	1642.8	1679.3	1540.2
35°	1845.1	1836.2	1854.0	1836.2	1800.7	1798.7	1791.8	1746.4	1768.1	1820.4	1682.3
37.5°	1911.2	1914.2	1935.9	1927.0	1929.9	1931.9	1928.0	1879.6	1941.8	2059.2	1848.1
40°	1972.4	1968.4	2021.7	2049.3	2055.3	2077.0	2077.0	2065.1	2160.8	2293.0	2077.9
42.5°	2037.5	2047.4	2116.4	2162.8	2219.0	2237.8	2263.4	2269.4	2417.4	2568.3	2312.8
45°	2144.1	2127.3	2215.1	2324.6	2374.0	2440.1	2479.5	2513.1	2691.7	2898.9	2547.6
47.5°	2279.2	2245.7	2322.6	2481.5	2596.0	2650.2	2721.3	2765.7	2940.3	3154.4	2769.6
50°	2429.2	2394.7	2432.2	2651.2	2784.4	2883.1	2973.9	3030.1	3241.2	3440.6	2931.4
52.5°	2598.9	2567.3	2573.3	2827.8	3024.2	3096.2	3215.6	3299.5	3509.6	3613.2	2988.7
55°	2779.5	2771.6	2752.8	3000.5	3234.3	3396.1	3468.2	3568.8	3784.9	3707.0	3050.8
57.5°	2961.0	2936.4	2963.0	3229.4	3571.8	3668.5	3768.1	3828.3	3937.8	3788.8	3027.1
60°	3131.7	3133.7	3171.2	3478.0	3858.9	3996.1	4085.8	4049.3	4094.7	3824.4	2972.9
62.5°	3275.8	3271.8	3366.5	3757.3	4238.8	4331.5	4398.6	4235.8	4167.7	3858.9	2878.1
65°	3405.0	3449.4	3598.4	4089.8	4596.0	4702.5	4662.1	4412.4	4238.8	3757.3	2611.7
67.5°	3502.7	3568.8	3827.3	4402.6	4923.5	4998.5	4942.3	4546.6	4154.9	3358.7	2127.3
70°	3559.9	3627.0	3991.1	4663.0	5185.0	5239.3	5107.1	4443.0	3665.5	2432.2	1327.1
71°	3542.2	3624.1	4022.7	4690.7	5247.2	5287.6	5082.4	4251.6	3296.5	2036.5	967.9
72.5°	3381.3	3458.3	3891.5	4670.9	5172.2	5147.5	4890.0	3791.8	2595.0	1298.5	500.2
75°	2484.5	2567.3	3339.9	4040.5	4616.7	4447.0	3957.6	2661.1	1353.7	397.6	146.0
77.5°	1237.3	1251.1	2073.0	2933.4	3386.3	3217.6	2652.2	1484.0	506.2	117.4	73.0
80°	570.3	574.2	777.5	1519.5	2047.4	1927.0	1485.9	732.1	228.9	62.2	57.2
82.5°	388.8	394.7	468.7	629.5	889.0	749.9	601.9	468.7	131.2	37.5	56.2
85°	71.0	65.1	262.5	333.5	343.4	232.9	208.2	405.5	49.3	21.7	49.3
87.5°	0.0	1.0	36.5	136.2	122.3	54.3	71.0	98.7	4.9	6.9	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484742

CATALOG NUMBER: IFLD-S-SA2A-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3	1309.3
2.5°	1307.3	1296.5	1260.0	1219.5	1183.0	1154.4	1117.9	1101.1	1074.5	1059.7	1058.7
5°	1288.6	1259.0	1195.9	1127.8	1051.8	988.7	918.6	879.1	833.7	819.9	817.0
7.5°	1257.0	1214.6	1121.9	1026.1	909.7	798.2	712.4	620.6	564.4	540.7	531.8
10°	1237.3	1186.0	1059.7	916.6	753.8	596.9	476.6	378.9	327.6	302.9	297.0
12.5°	1237.3	1182.0	1009.4	812.0	596.0	408.5	295.0	238.8	222.0	216.1	216.1
15°	1234.3	1174.1	961.0	704.5	441.0	274.3	220.0	208.2	206.2	205.2	204.2
17.5°	1249.1	1160.3	911.7	589.0	311.8	216.1	202.3	200.3	198.3	198.3	196.3
20°	1260.0	1152.4	852.5	466.7	232.9	200.3	194.4	191.4	190.4	189.4	191.4
22.5°	1251.1	1140.6	779.5	349.3	203.3	190.4	186.5	183.5	181.5	181.5	182.5
25°	1267.9	1129.7	706.5	263.4	190.4	181.5	177.6	175.6	174.6	173.7	171.7
27.5°	1290.6	1134.7	619.6	212.1	179.6	172.7	168.7	166.7	165.8	163.8	165.8
30°	1318.2	1133.7	523.9	185.5	169.7	162.8	158.9	157.9	155.9	154.9	155.9
32.5°	1365.6	1159.3	425.3	171.7	158.9	152.9	149.0	148.0	147.0	146.0	145.0
35°	1467.2	1190.9	332.5	160.8	149.0	142.1	139.1	137.1	136.2	135.2	134.2
37.5°	1592.5	1261.0	253.6	151.0	139.1	132.2	129.3	128.3	124.3	123.3	122.3
40°	1749.4	1336.0	195.4	140.1	130.2	123.3	120.4	117.4	112.5	110.5	108.5
42.5°	1944.7	1409.0	160.8	130.2	120.4	115.4	110.5	105.6	101.6	97.7	95.7
45°	2140.1	1493.8	141.1	121.4	112.5	106.6	102.6	95.7	88.8	82.9	81.9
47.5°	2302.9	1524.4	129.3	111.5	104.6	99.7	93.7	84.9	75.0	69.1	68.1
50°	2424.3	1506.7	117.4	101.6	95.7	90.8	82.9	72.0	62.2	56.2	54.3
52.5°	2448.0	1428.7	106.6	93.7	86.8	80.9	72.0	60.2	49.3	43.4	42.4
55°	2431.2	1299.5	97.7	86.8	78.9	70.1	60.2	48.3	38.5	32.6	31.6
57.5°	2396.6	1146.5	87.8	77.9	69.1	60.2	49.3	39.5	28.6	22.7	22.7
60°	2279.2	938.3	77.9	68.1	59.2	51.3	40.5	28.6	19.7	14.8	13.8
62.5°	2115.4	721.3	68.1	58.2	51.3	42.4	31.6	20.7	11.8	7.9	7.9
65°	1816.5	505.2	57.2	48.3	42.4	34.5	23.7	12.8	6.9	3.0	3.0
67.5°	1380.4	312.8	47.4	40.5	36.5	27.6	16.8	7.9	3.0	1.0	0.0
70°	792.3	162.8	37.5	32.6	28.6	20.7	11.8	3.9	2.0	0.0	0.0
71°	553.5	120.4	33.5	28.6	25.7	18.7	9.9	3.0	1.0	0.0	0.0
72.5°	277.3	79.9	28.6	23.7	20.7	14.8	7.9	3.0	1.0	0.0	0.0
75°	98.7	51.3	19.7	15.8	14.8	10.9	4.9	2.0	1.0	0.0	0.0
77.5°	68.1	41.4	13.8	9.9	9.9	6.9	3.0	1.0	1.0	0.0	0.0
80°	62.2	22.7	8.9	5.9	4.9	3.9	2.0	1.0	0.0	0.0	0.0
82.5°	62.2	16.8	4.9	3.9	3.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	43.4	8.9	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	3.0	2.0	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)