

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: P483923

Luminaire Tested: **IFLD-S-SA2A-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483923
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

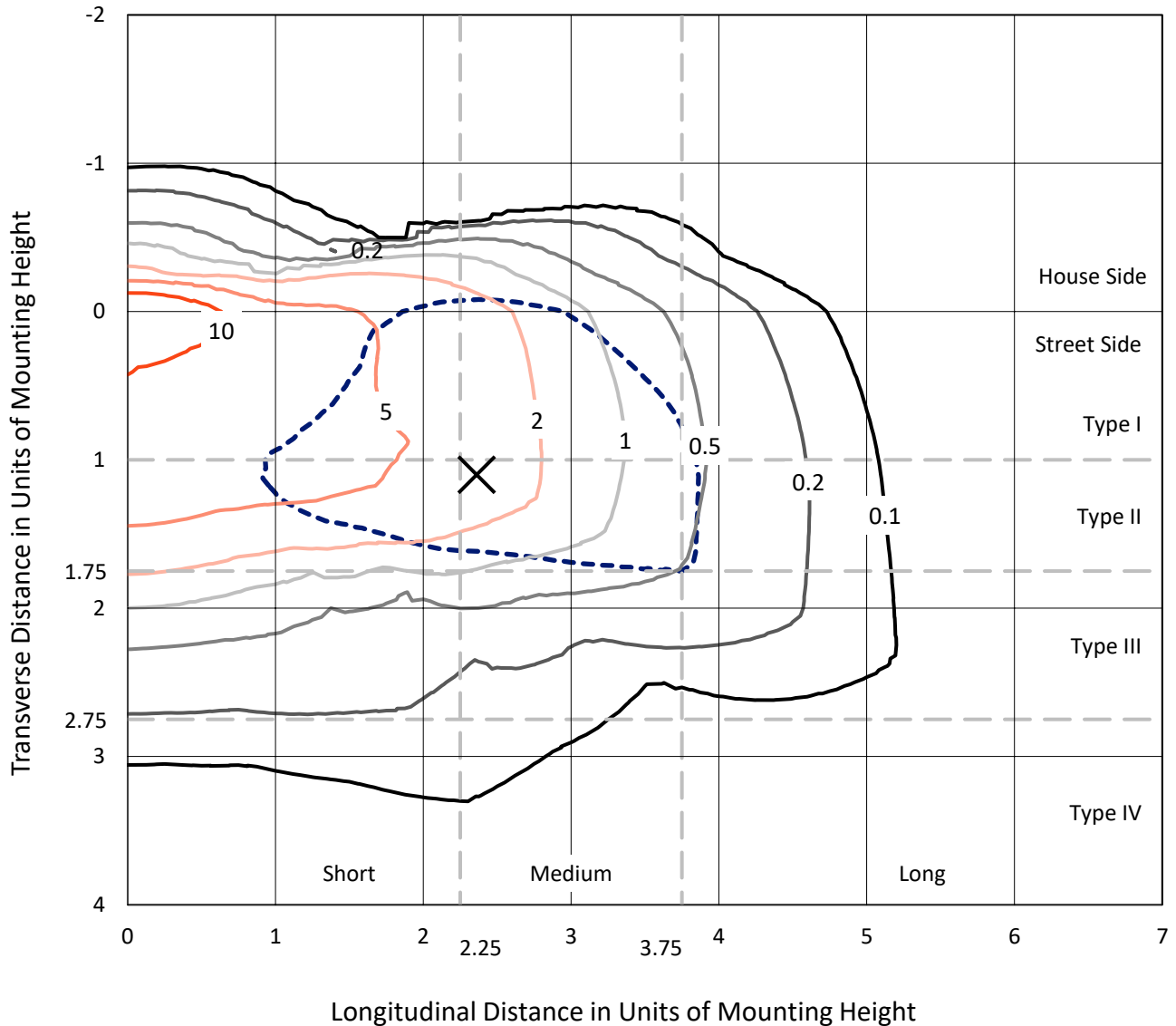
Lumens per Lamp: N/A
Luminaire Lumens: 6919.3 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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: P483923
 CATALOG NUMBER: IFLD-S-SA2A-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

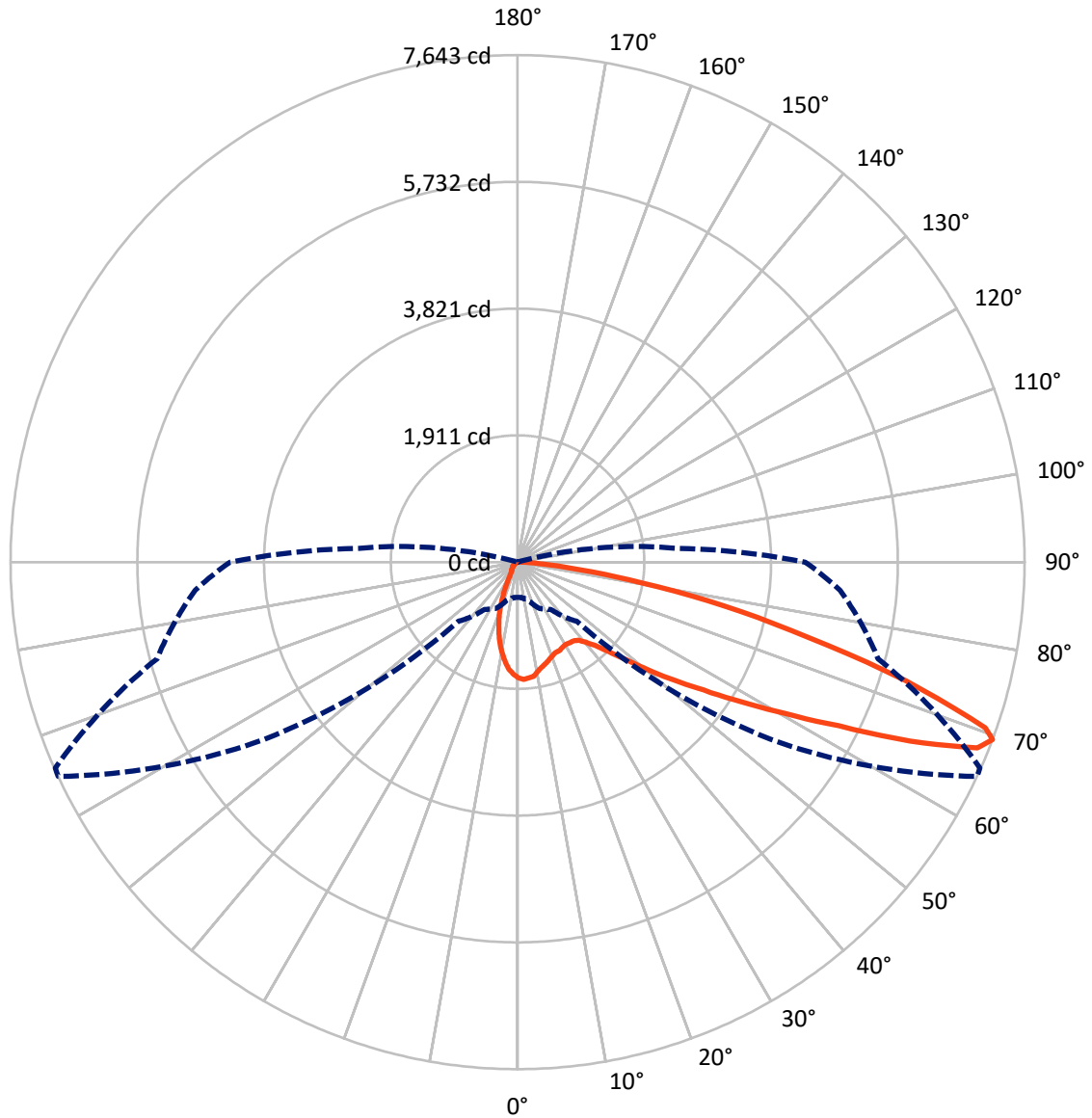
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P483923
CATALOG NUMBER: IFLD-S-SA2A-730-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483923
 CATALOG NUMBER: IFLD-S-SA2A-730-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.3	0.0	839.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	6079.9	0.0	6079.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	6919.3	0.0	6919.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	2.1
10°-20°	312.4	4.5
20°-30°	434.9	6.3
30°-40°	616.2	8.9
40°-50°	971.2	14.0
50°-60°	1575.9	22.8
60°-70°	1759.9	25.4
70°-80°	991.0	14.3
80°-90°	115.0	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°	6919.3	100.0
0°-180°	6919.3	100.0

Coefficient of Utilization



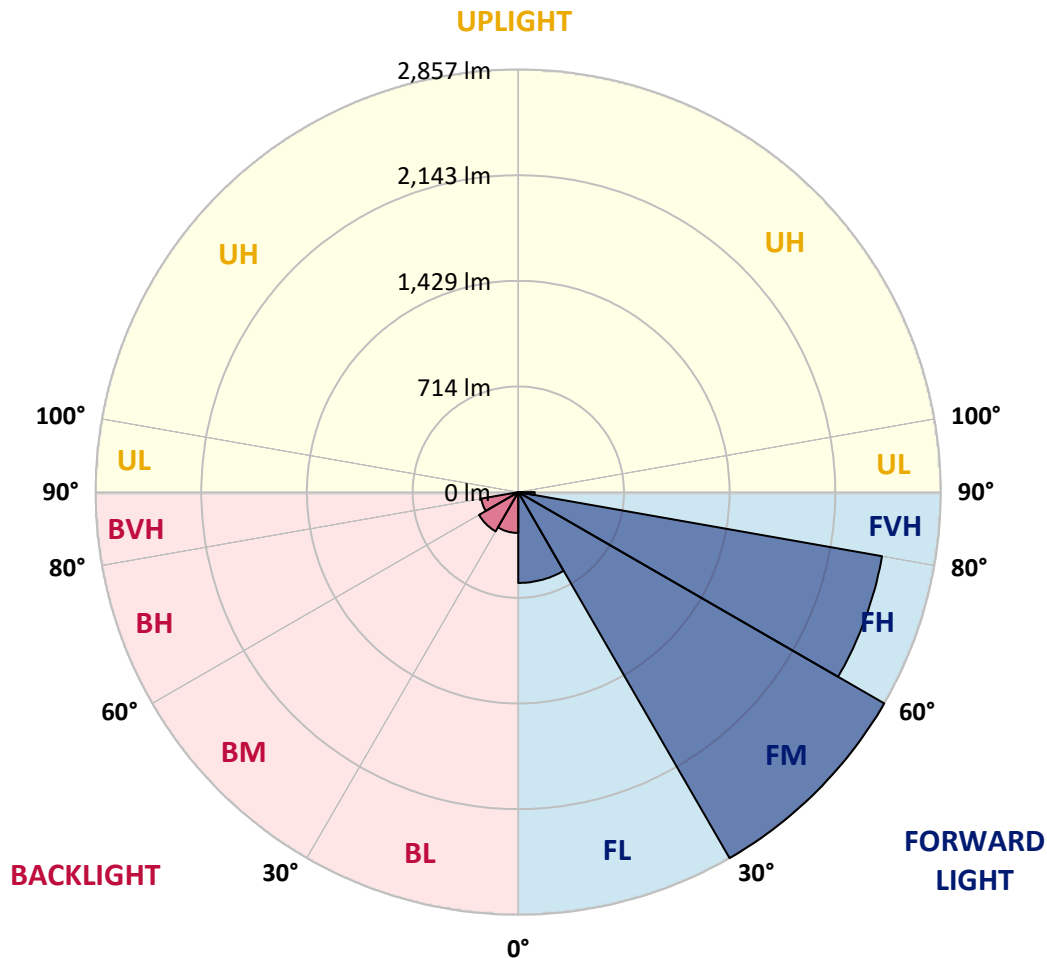
REPORT NUMBER: P483923
 CATALOG NUMBER: IFLD-S-SA2A-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.0	8.9			
FM (30°-60°)	2857.0	41.3			
FH (60°-80°)	2497.0	36.1			G2/5000
FVH (80°-90°)	111.8	1.6			G2/225
BL (0°-30°)	276.0	4.0	B1/500		
BM (30°-60°)	306.3	4.4	B1/1000		
BH (60°-80°)	254.0	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





REPORT NUMBER: P483923

CATALOG NUMBER: IFLD-S-SA2A-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5
2.5°	1680.1	1693.2	1696.9	1710.0	1716.5	1744.5	1760.4	1769.7	1765.0	1775.3	1776.2
5°	1560.6	1553.2	1572.8	1586.8	1616.6	1665.2	1714.6	1752.9	1770.6	1787.4	1784.6
7.5°	1432.8	1429.0	1448.6	1480.4	1507.4	1566.2	1645.6	1739.8	1736.1	1777.2	1789.3
10°	1345.0	1348.8	1355.3	1387.0	1427.2	1486.9	1585.8	1673.6	1693.2	1780.0	1804.2
12.5°	1264.7	1271.3	1283.4	1316.1	1362.8	1424.4	1520.5	1623.2	1653.0	1764.1	1812.7
15°	1238.6	1223.7	1247.9	1272.2	1320.8	1375.8	1457.0	1584.9	1598.0	1745.4	1826.7
17.5°	1217.1	1207.8	1219.0	1238.6	1289.9	1334.8	1411.3	1543.8	1568.1	1738.0	1824.8
20°	1223.7	1215.3	1219.9	1234.9	1258.2	1300.2	1371.2	1504.6	1530.8	1703.4	1822.0
22.5°	1242.3	1248.9	1240.5	1244.2	1251.7	1273.1	1349.7	1476.6	1499.0	1696.9	1837.9
25°	1326.4	1315.2	1304.0	1299.3	1255.4	1264.7	1343.2	1474.8	1490.6	1673.6	1824.8
27.5°	1414.1	1404.8	1400.1	1373.0	1313.3	1285.3	1344.1	1448.6	1470.1	1664.2	1808.9
30°	1520.5	1532.6	1514.0	1481.3	1398.2	1329.2	1354.4	1435.6	1465.4	1628.8	1798.6
32.5°	1632.5	1639.0	1648.4	1624.1	1516.8	1395.4	1385.2	1447.7	1449.6	1628.8	1775.3
35°	1759.4	1750.1	1774.4	1776.2	1682.0	1513.0	1444.0	1456.1	1475.7	1621.3	1766.9
37.5°	1868.7	1884.5	1912.5	1957.3	1860.3	1679.2	1535.4	1495.3	1503.7	1655.8	1773.4
40°	1988.1	2004.0	2067.5	2112.3	2057.2	1865.9	1674.5	1586.8	1593.3	1707.2	1807.0
42.5°	2119.7	2150.5	2226.1	2304.5	2289.6	2102.9	1853.7	1721.2	1718.4	1835.1	1876.1
45°	2298.0	2339.1	2421.2	2511.8	2524.8	2374.6	2092.7	1921.9	1931.2	2002.1	2018.9
47.5°	2546.3	2544.4	2624.7	2725.5	2801.1	2656.4	2378.3	2191.6	2190.7	2266.3	2230.8
50°	2786.2	2787.1	2808.6	2925.3	3121.3	3047.5	2732.0	2550.0	2539.8	2577.1	2520.2
52.5°	2897.3	2884.2	2868.3	3009.3	3367.7	3540.4	3180.1	2956.1	2947.7	2925.3	2910.3
55°	2780.6	2785.2	2784.3	2930.9	3497.4	4060.3	3755.0	3403.2	3389.2	3319.1	3339.7
57.5°	2406.3	2391.4	2424.0	2652.7	3349.0	4415.0	4577.4	3966.9	3930.5	3698.1	3651.4
60°	1791.2	1795.8	1822.9	2092.7	2980.3	4489.6	5364.2	4628.7	4471.9	3965.1	3900.7
62.5°	1250.7	1241.4	1251.7	1402.9	2130.9	4190.9	5896.2	5433.3	5282.1	4268.4	4231.1
65°	895.1	883.0	924.1	1016.5	1279.7	3204.3	5971.9	6504.8	6369.5	4752.8	4663.2
67.5°	644.0	642.2	689.8	857.8	909.1	1845.3	5411.8	7475.5	7393.4	5327.8	4926.5
69°	533.0	533.9	579.6	768.2	868.1	1260.1	4656.7	7642.6	7627.7	5624.6	4877.0
70°	464.8	468.6	521.8	715.0	851.3	1036.1	4014.5	7478.3	7463.4	5682.5	4713.6
72.5°	286.6	289.4	359.4	573.1	809.3	845.7	2400.7	6118.4	6169.7	5417.4	4061.2
75°	137.2	138.1	188.5	414.4	780.3	801.8	1286.2	4514.8	4623.1	4373.9	3173.5
77.5°	72.8	72.8	90.5	220.3	631.9	754.2	763.5	3184.7	3274.3	2765.6	1804.2
80°	36.4	37.3	55.1	114.8	392.0	739.2	596.4	1899.5	1948.0	1128.5	561.9
82.5°	14.0	14.9	26.1	69.1	203.5	624.4	523.6	934.3	922.2	264.2	137.2
85°	1.9	1.9	9.3	41.1	86.8	275.4	432.2	390.2	377.1	57.9	66.3
87.5°	0.0	0.0	1.9	12.1	26.1	80.3	167.1	107.3	119.5	15.9	32.7
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: P483923

CATALOG NUMBER: IFLD-S-SA2A-730-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5
2.5°	1771.6	1752.0	1722.1	1693.2	1662.4	1625.0	1584.0	1569.0	1542.9	1541.0	1556.0
5°	1769.7	1738.0	1685.7	1624.1	1536.4	1470.1	1398.2	1346.0	1305.8	1279.7	1286.2
7.5°	1779.0	1740.8	1650.2	1517.7	1404.8	1273.1	1162.1	1085.5	1015.5	981.0	977.3
10°	1764.1	1712.8	1580.2	1394.5	1228.3	1044.5	882.1	779.4	674.8	636.6	638.4
12.5°	1772.5	1700.6	1504.6	1267.5	1038.9	799.9	605.8	465.8	367.8	336.0	332.3
15°	1778.1	1674.5	1431.8	1115.4	828.9	545.1	351.0	264.2	233.3	227.7	226.8
17.5°	1756.6	1642.8	1329.2	965.1	614.2	331.4	233.3	215.6	210.0	206.3	204.4
20°	1755.7	1624.1	1240.5	811.1	409.8	225.9	201.6	195.1	186.7	183.9	183.9
22.5°	1739.8	1584.9	1134.1	642.2	261.4	194.1	181.1	170.8	161.5	157.7	156.8
25°	1735.2	1539.2	1034.2	482.6	198.8	173.6	160.5	145.6	134.4	128.8	126.0
27.5°	1722.1	1500.0	933.4	339.8	173.6	154.9	138.1	122.3	109.2	100.8	99.9
30°	1675.4	1458.9	821.4	235.2	157.7	137.2	118.5	99.9	86.8	81.2	79.3
32.5°	1655.8	1420.6	699.1	181.1	143.7	121.3	99.9	83.1	72.8	67.2	66.3
35°	1632.5	1364.6	580.6	157.7	130.7	105.5	84.0	70.0	61.6	56.9	56.9
37.5°	1635.3	1319.8	469.5	142.8	116.7	90.5	71.9	59.7	52.3	47.6	47.6
40°	1626.9	1284.3	365.0	129.7	103.6	77.5	60.7	50.4	43.9	39.2	38.3
42.5°	1665.2	1275.0	275.4	118.5	90.5	66.3	52.3	42.9	36.4	30.8	30.8
45°	1729.6	1289.9	214.7	108.3	77.5	56.9	44.8	35.5	28.9	25.2	24.3
47.5°	1901.3	1348.8	168.0	99.9	66.3	49.5	37.3	28.9	23.3	19.6	18.7
50°	2150.5	1480.4	142.8	87.7	56.0	42.0	30.8	22.4	18.7	14.9	14.0
52.5°	2505.2	1701.6	129.7	77.5	46.7	34.5	24.3	17.7	14.0	11.2	10.3
55°	2891.7	1977.9	117.6	65.3	39.2	28.0	19.6	14.0	10.3	7.5	6.5
57.5°	3193.1	2216.8	107.3	54.1	31.7	22.4	14.9	10.3	7.5	4.7	3.7
60°	3522.6	2384.8	94.3	42.9	26.1	16.8	11.2	7.5	5.6	2.8	2.8
62.5°	3862.4	2581.8	77.5	33.6	20.5	13.1	8.4	5.6	3.7	0.9	0.9
65°	4334.7	2735.8	59.7	26.1	15.9	9.3	6.5	4.7	1.9	0.0	0.0
67.5°	4468.2	2660.2	43.9	20.5	11.2	6.5	4.7	2.8	0.9	0.0	0.0
69°	4334.7	2396.0	38.3	17.7	9.3	5.6	3.7	1.9	0.9	0.0	0.0
70°	4091.1	2190.7	33.6	14.9	8.4	5.6	2.8	1.9	0.9	0.0	0.0
72.5°	3421.8	1680.1	26.1	11.2	6.5	4.7	2.8	1.9	0.0	0.0	0.0
75°	2509.9	1037.9	19.6	8.4	5.6	3.7	2.8	1.9	0.0	0.0	0.0
77.5°	1345.0	379.0	14.0	5.6	3.7	2.8	2.8	1.9	0.0	0.0	0.0
80°	368.7	112.0	10.3	3.7	2.8	1.9	1.9	0.9	0.0	0.0	0.0
82.5°	100.8	28.9	6.5	3.7	2.8	1.9	0.9	0.0	0.0	0.0	0.0
85°	54.1	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)