

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: P483962

Luminaire Tested: **IFLD-S-SA2A-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483962
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-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

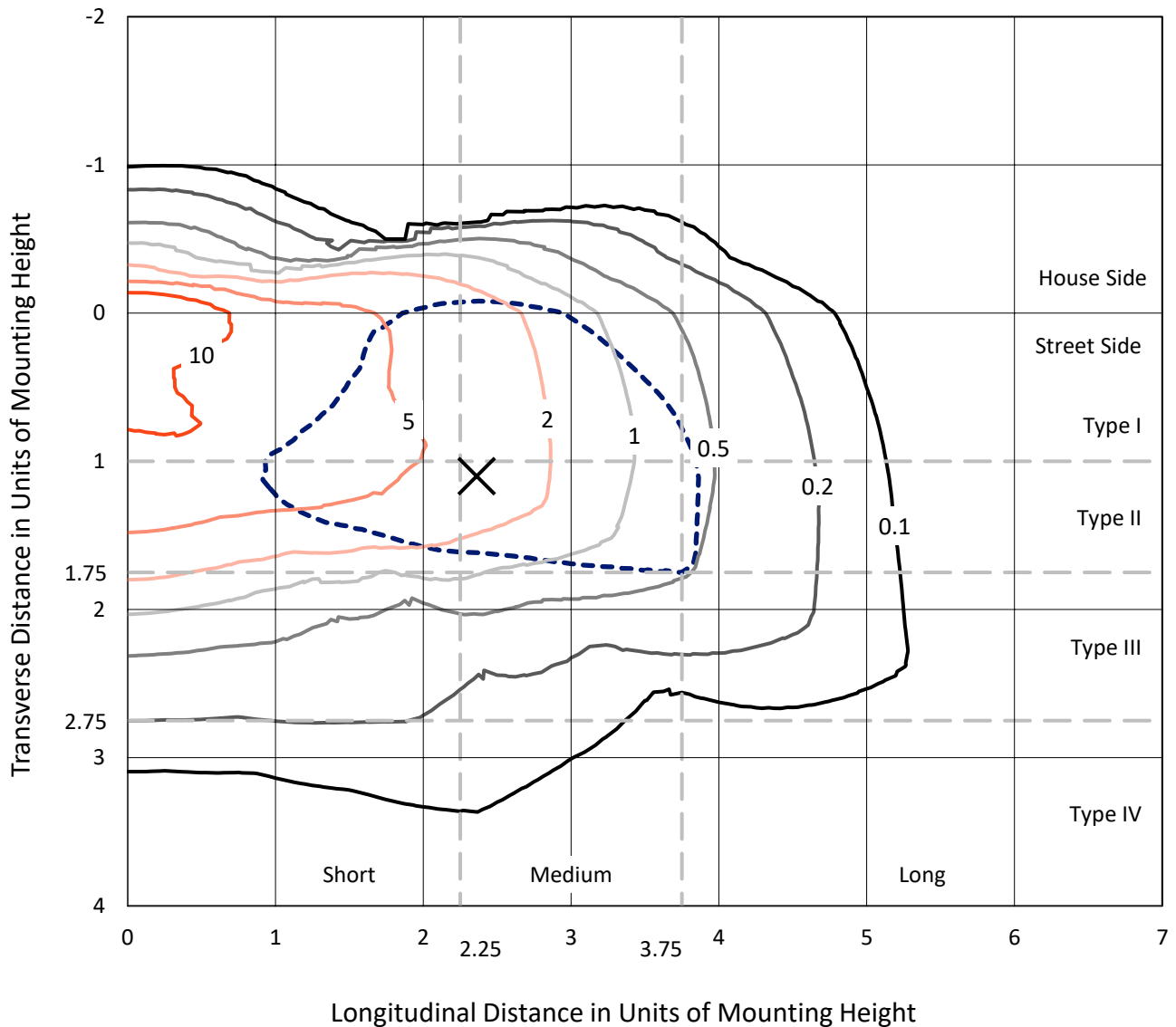
Lumens per Lamp: N/A
Luminaire Lumens: 7494.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

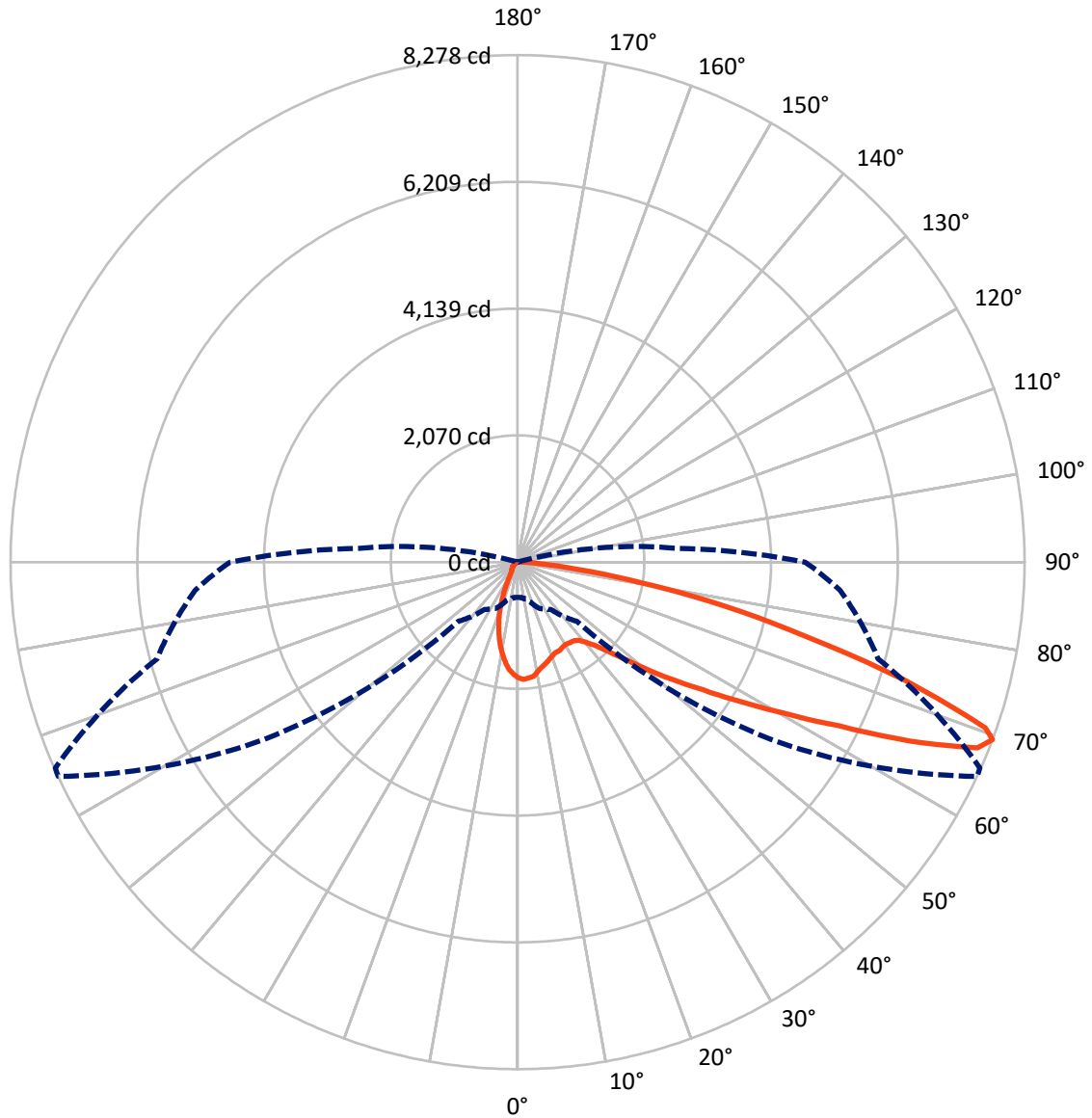
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.9 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	909.1	0.0	909.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	6585.4	0.0	6585.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	7494.5	0.0	7494.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	2.1
10°-20°	338.3	4.5
20°-30°	471.0	6.3
30°-40°	667.5	8.9
40°-50°	1051.9	14.0
50°-60°	1706.9	22.8
60°-70°	1906.3	25.4
70°-80°	1073.4	14.3
80°-90°	124.6	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°	7494.5	100.0
0°-180°	7494.5	100.0

Coefficient of Utilization

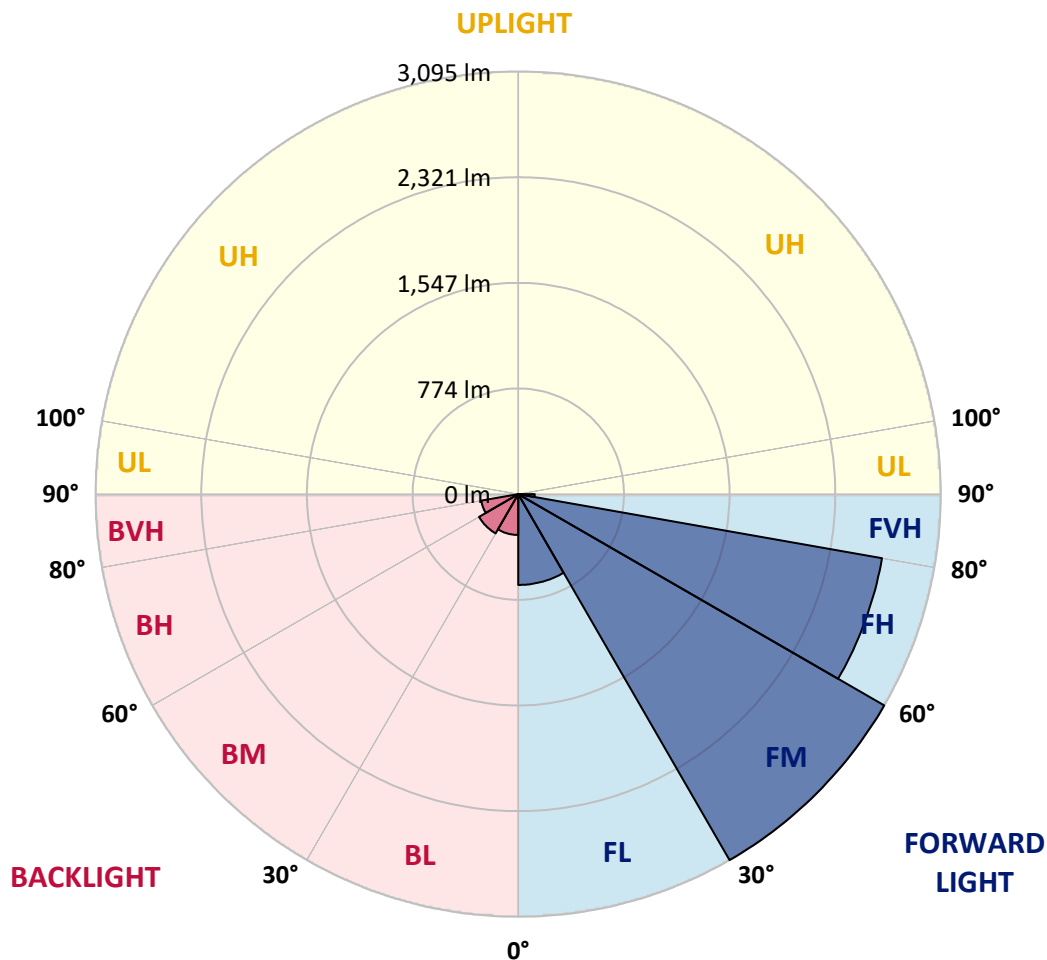


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.1	8.9			
FM (30°-60°)	3094.6	41.3			
FH (60°-80°)	2704.6	36.1			G2/5000
FVH (80°-90°)	121.1	1.6			G2/225
BL (0°-30°)	298.9	4.0	B1/500		
BM (30°-60°)	331.7	4.4	B1/1000		
BH (60°-80°)	275.1	3.7	B1/500		G1/500
BVH (80°-90°)	3.4	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°	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5
2.5°	1819.8	1833.9	1838.0	1852.1	1859.2	1889.5	1906.7	1916.8	1911.8	1922.9	1923.9
5°	1690.4	1682.3	1703.5	1718.7	1751.0	1803.6	1857.2	1898.6	1917.8	1936.0	1933.0
7.5°	1551.9	1547.8	1569.1	1603.4	1632.7	1696.4	1782.4	1884.5	1880.4	1924.9	1938.1
10°	1456.8	1460.9	1468.0	1502.3	1545.8	1610.5	1717.7	1812.7	1833.9	1928.0	1954.2
12.5°	1369.9	1377.0	1390.1	1425.5	1476.0	1542.8	1646.9	1758.1	1790.5	1910.8	1963.3
15°	1341.6	1325.4	1351.7	1378.0	1430.5	1490.2	1578.2	1716.7	1730.8	1890.5	1978.5
17.5°	1318.3	1308.2	1320.4	1341.6	1397.2	1445.7	1528.6	1672.2	1698.5	1882.5	1976.5
20°	1325.4	1316.3	1321.4	1337.5	1362.8	1408.3	1485.1	1629.7	1658.0	1845.1	1973.4
22.5°	1345.6	1352.7	1343.6	1347.6	1355.7	1379.0	1461.9	1599.4	1623.6	1838.0	1990.6
25°	1436.6	1424.5	1412.4	1407.3	1359.8	1369.9	1454.8	1597.4	1614.5	1812.7	1976.5
27.5°	1531.6	1521.5	1516.5	1487.2	1422.5	1392.1	1455.8	1569.1	1592.3	1802.6	1959.3
30°	1646.9	1660.0	1639.8	1604.4	1514.5	1439.6	1466.9	1554.9	1587.3	1764.2	1948.2
32.5°	1768.2	1775.3	1785.4	1759.1	1642.9	1511.4	1500.3	1568.0	1570.1	1764.2	1922.9
35°	1905.7	1895.6	1921.9	1923.9	1821.8	1638.8	1564.0	1577.1	1598.4	1756.1	1913.8
37.5°	2024.0	2041.2	2071.5	2120.0	2014.9	1818.8	1663.1	1619.6	1628.7	1793.5	1920.9
40°	2153.4	2170.6	2239.3	2287.9	2228.2	2021.0	1813.7	1718.7	1725.8	1849.1	1957.3
42.5°	2296.0	2329.3	2411.2	2496.1	2480.0	2277.8	2007.8	1864.3	1861.2	1987.6	2032.1
45°	2489.1	2533.5	2622.5	2720.6	2734.7	2572.0	2266.6	2081.6	2091.7	2168.6	2186.8
47.5°	2758.0	2756.0	2842.9	2952.1	3034.0	2877.3	2576.0	2373.8	2372.8	2454.7	2416.3
50°	3017.8	3018.8	3042.1	3168.4	3380.7	3300.9	2959.2	2762.0	2750.9	2791.3	2729.7
52.5°	3138.1	3124.0	3106.8	3259.4	3647.6	3834.7	3444.4	3201.8	3192.7	3168.4	3152.3
55°	3011.7	3016.8	3015.8	3174.5	3788.2	4397.8	4067.2	3686.1	3670.9	3595.1	3617.3
57.5°	2606.3	2590.2	2625.5	2873.2	3627.4	4782.0	4957.9	4296.7	4257.3	4005.5	3955.0
60°	1940.1	1945.1	1974.5	2266.6	3228.1	4862.9	5810.2	5013.5	4843.6	4294.7	4224.9
62.5°	1354.7	1344.6	1355.7	1519.5	2308.1	4539.3	6386.4	5885.0	5721.2	4623.2	4582.8
65°	969.5	956.4	1000.9	1101.0	1386.1	3470.7	6468.3	7045.6	6899.0	5148.0	5050.9
67.5°	697.6	695.6	747.1	929.1	984.7	1998.7	5861.7	8097.0	8008.0	5770.7	5336.0
69°	577.3	578.3	627.8	832.0	940.2	1364.8	5043.8	8278.0	8261.8	6092.2	5282.4
70°	503.5	507.5	565.1	774.4	922.0	1122.2	4348.3	8100.0	8083.9	6154.9	5105.5
72.5°	310.4	313.4	389.2	620.7	876.5	916.0	2600.3	6627.0	6682.6	5867.8	4398.8
75°	148.6	149.6	204.2	448.9	845.2	868.4	1393.1	4890.2	5007.4	4737.5	3437.4
77.5°	78.9	78.9	98.1	238.6	684.4	816.9	827.0	3449.5	3546.5	2995.6	1954.2
80°	39.4	40.4	59.6	124.4	424.6	800.7	646.0	2057.4	2109.9	1222.3	608.6
82.5°	15.2	16.2	28.3	74.8	220.4	676.4	567.2	1012.0	998.9	286.1	148.6
85°	2.0	2.0	10.1	44.5	94.0	298.2	468.1	422.6	408.4	62.7	71.8
87.5°	0.0	0.0	2.0	13.1	28.3	86.9	181.0	116.3	129.4	17.2	35.4
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°	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5	1889.5
2.5°	1918.9	1897.6	1865.3	1833.9	1800.6	1760.1	1715.6	1699.5	1671.2	1669.1	1685.3
5°	1916.8	1882.5	1825.8	1759.1	1664.1	1592.3	1514.5	1457.8	1414.4	1386.1	1393.1
7.5°	1926.9	1885.5	1787.4	1643.9	1521.5	1379.0	1258.7	1175.8	1100.0	1062.5	1058.5
10°	1910.8	1855.2	1711.6	1510.4	1330.5	1131.3	955.4	844.2	730.9	689.5	691.5
12.5°	1919.9	1842.0	1629.7	1372.9	1125.2	866.4	656.1	504.5	398.3	364.0	359.9
15°	1925.9	1813.7	1550.9	1208.1	897.8	590.4	380.1	286.1	252.7	246.7	245.7
17.5°	1902.7	1779.3	1439.6	1045.4	665.2	358.9	252.7	233.5	227.5	223.4	221.4
20°	1901.7	1759.1	1343.6	878.5	443.8	244.7	218.4	211.3	202.2	199.2	199.2
22.5°	1884.5	1716.7	1228.4	695.6	283.1	210.3	196.1	185.0	174.9	170.9	169.8
25°	1879.4	1667.1	1120.2	522.7	215.3	188.0	173.9	157.7	145.6	139.5	136.5
27.5°	1865.3	1624.7	1011.0	368.0	188.0	167.8	149.6	132.4	118.3	109.2	108.2
30°	1814.7	1580.2	889.7	254.8	170.9	148.6	128.4	108.2	94.0	88.0	85.9
32.5°	1793.5	1538.7	757.2	196.1	155.7	131.4	108.2	90.0	78.9	72.8	71.8
35°	1768.2	1478.1	628.8	170.9	141.5	114.2	91.0	75.8	66.7	61.7	61.7
37.5°	1771.3	1429.5	508.5	154.7	126.4	98.1	77.8	64.7	56.6	51.6	51.6
40°	1762.2	1391.1	395.3	140.5	112.2	83.9	65.7	54.6	47.5	42.5	41.5
42.5°	1803.6	1381.0	298.2	128.4	98.1	71.8	56.6	46.5	39.4	33.4	33.4
45°	1873.4	1397.2	232.5	117.3	83.9	61.7	48.5	38.4	31.3	27.3	26.3
47.5°	2059.4	1460.9	182.0	108.2	71.8	53.6	40.4	31.3	25.3	21.2	20.2
50°	2329.3	1603.4	154.7	95.0	60.7	45.5	33.4	24.3	20.2	16.2	15.2
52.5°	2713.5	1843.0	140.5	83.9	50.5	37.4	26.3	19.2	15.2	12.1	11.1
55°	3132.0	2142.3	127.4	70.8	42.5	30.3	21.2	15.2	11.1	8.1	7.1
57.5°	3458.6	2401.1	116.3	58.6	34.4	24.3	16.2	11.1	8.1	5.1	4.0
60°	3815.5	2583.1	102.1	46.5	28.3	18.2	12.1	8.1	6.1	3.0	3.0
62.5°	4183.5	2796.4	83.9	36.4	22.2	14.2	9.1	6.1	4.0	1.0	1.0
65°	4695.0	2963.2	64.7	28.3	17.2	10.1	7.1	5.1	2.0	0.0	0.0
67.5°	4839.6	2881.3	47.5	22.2	12.1	7.1	5.1	3.0	1.0	0.0	0.0
69°	4695.0	2595.2	41.5	19.2	10.1	6.1	4.0	2.0	1.0	0.0	0.0
70°	4431.2	2372.8	36.4	16.2	9.1	6.1	3.0	2.0	1.0	0.0	0.0
72.5°	3706.3	1819.8	28.3	12.1	7.1	5.1	3.0	2.0	0.0	0.0	0.0
75°	2718.5	1124.2	21.2	9.1	6.1	4.0	3.0	2.0	0.0	0.0	0.0
77.5°	1456.8	410.5	15.2	6.1	4.0	3.0	3.0	2.0	0.0	0.0	0.0
80°	399.3	121.3	11.1	4.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0
82.5°	109.2	31.3	7.1	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	58.6	12.1	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.3	4.0	3.0	2.0	2.0	1.0	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)