

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: P484352

Luminaire Tested: **IFLD-S-SA2A-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484352
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-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

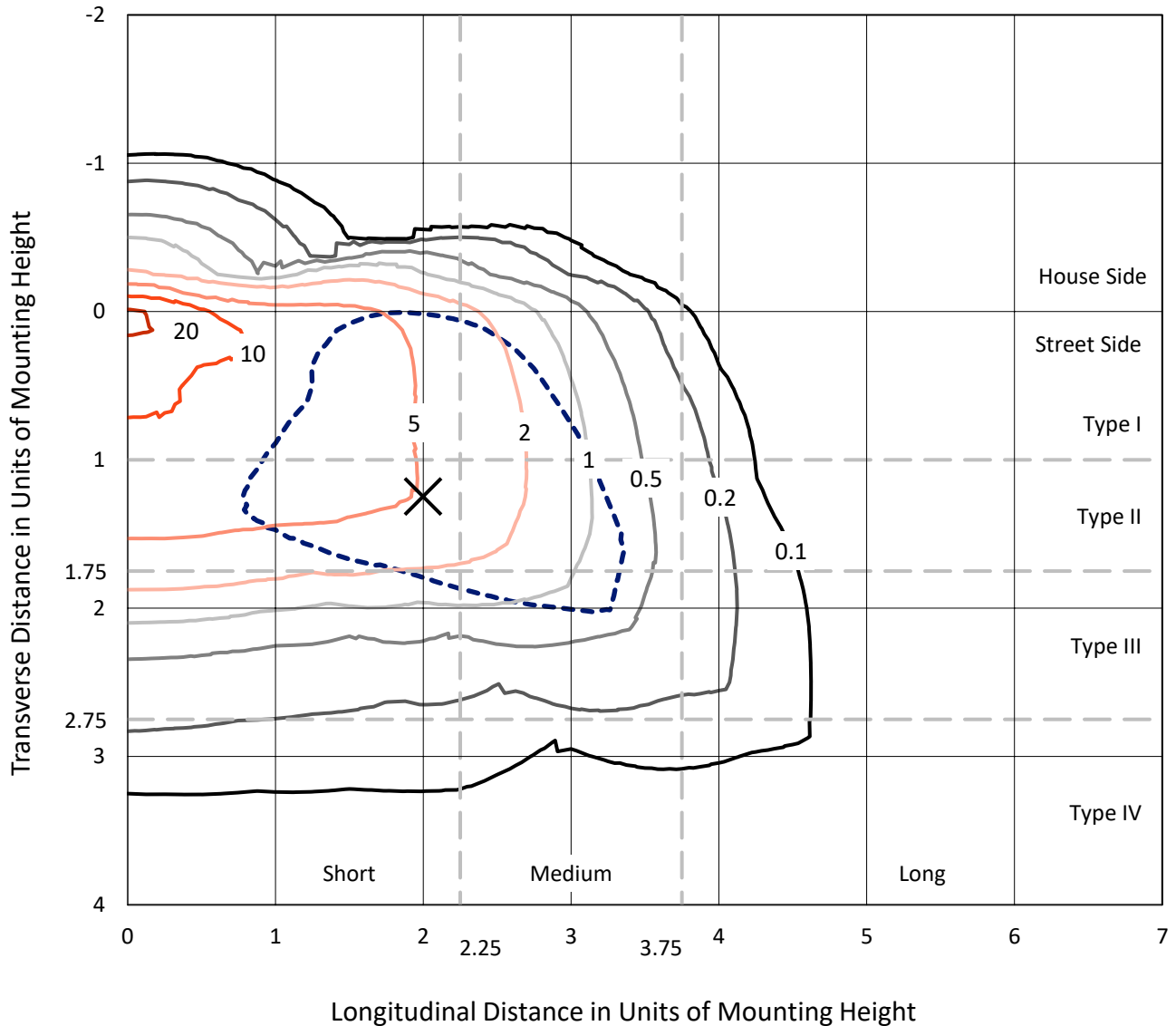
Lumens per Lamp: N/A
Luminaire Lumens: 7615.1 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

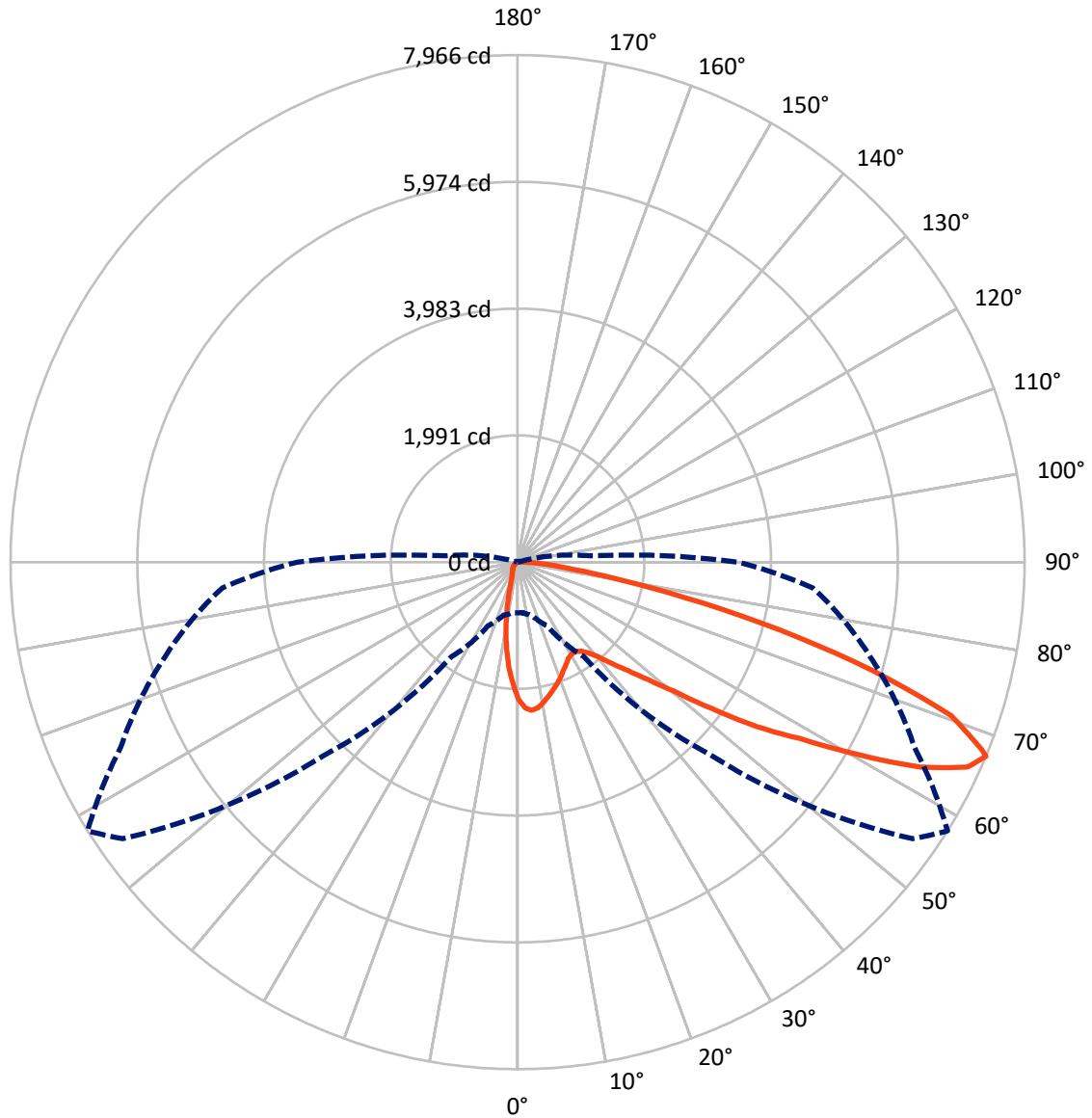
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.4	0.0	629.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	6985.7	0.0	6985.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	7615.1	0.0	7615.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	2.2
10°-20°	355.1	4.7
20°-30°	471.1	6.2
30°-40°	652.8	8.6
40°-50°	1065.2	14.0
50°-60°	1872.2	24.6
60°-70°	2073.6	27.2
70°-80°	859.3	11.3
80°-90°	94.6	1.2
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°	7615.1	100.0
0°-180°	7615.1	100.0

Coefficient of Utilization



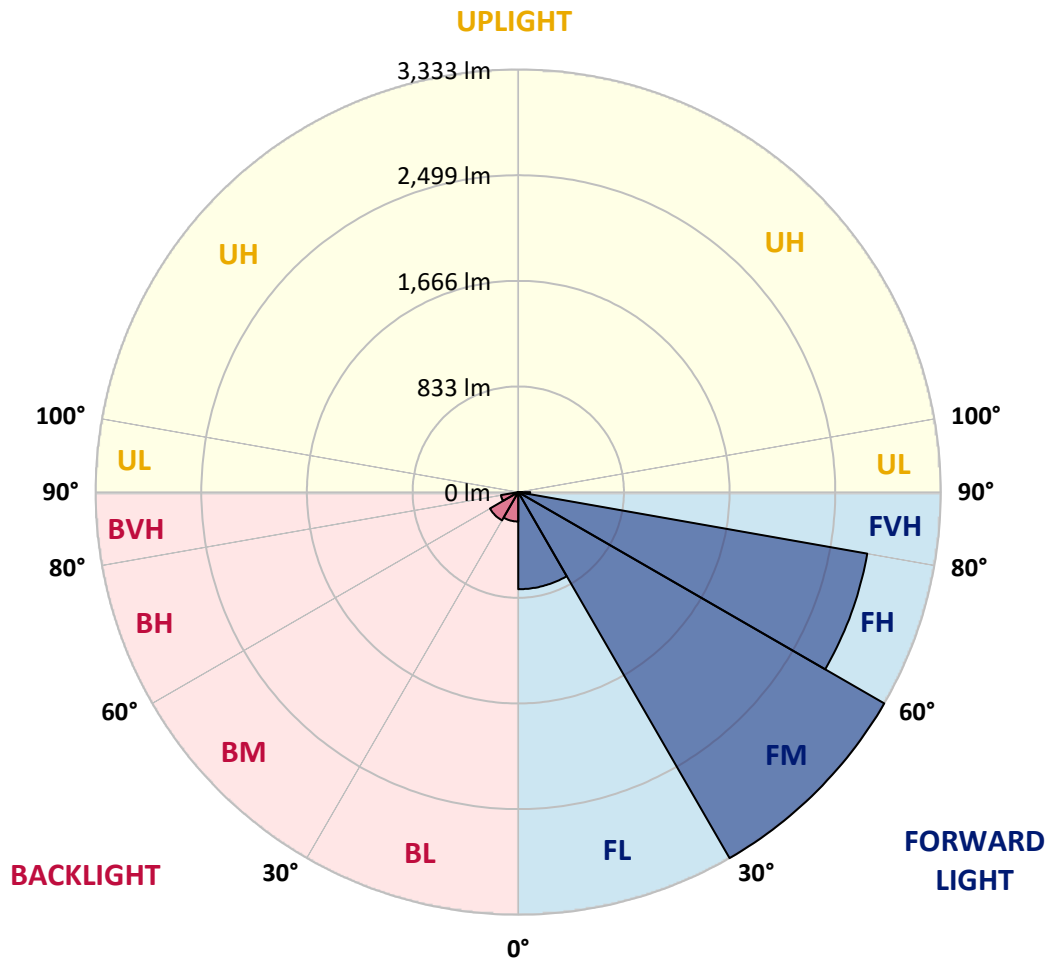
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.5	10.1			
FM (30°-60°)	3332.5	43.8			
FH (60°-80°)	2794.6	36.7			G2/5000
FVH (80°-90°)	93.0	1.2			G1/100
BL (0°-30°)	231.8	3.0	B1/500		
BM (30°-60°)	257.7	3.4	B1/1000		
BH (60°-80°)	138.4	1.8	B1/500		G1/500
BVH (80°-90°)	1.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5
2.5°	2347.5	2355.6	2362.7	2349.5	2360.7	2344.5	2303.0	2293.9	2286.9	2225.2	2189.8
5°	2346.5	2337.4	2344.5	2350.6	2335.4	2347.5	2337.4	2338.4	2311.1	2255.5	2156.4
7.5°	2189.8	2185.8	2189.8	2219.1	2252.5	2278.8	2293.9	2309.1	2290.9	2208.0	2112.0
10°	1978.5	1998.7	2009.9	2062.4	2114.0	2162.5	2210.0	2238.3	2233.3	2199.9	2063.4
12.5°	1830.9	1824.8	1865.3	1899.7	1951.2	2049.3	2132.2	2158.5	2188.8	2142.3	1999.7
15°	1694.4	1678.2	1702.5	1762.2	1850.1	1928.0	2044.2	2083.7	2122.1	2134.2	1965.4
17.5°	1564.0	1572.1	1597.4	1651.0	1733.9	1843.0	1952.2	2008.8	2100.8	2084.7	1913.8
20°	1501.3	1518.5	1527.6	1554.9	1612.5	1721.7	1884.5	1930.0	2028.1	2083.7	1863.3
22.5°	1504.4	1504.4	1483.1	1499.3	1551.9	1636.8	1792.5	1843.0	1998.7	2031.1	1817.8
25°	1536.7	1516.5	1517.5	1498.3	1520.5	1567.0	1709.6	1771.3	1939.1	2036.1	1793.5
27.5°	1561.0	1556.9	1550.9	1545.8	1517.5	1524.6	1655.0	1705.5	1915.8	2030.1	1756.1
30°	1648.9	1630.7	1624.7	1613.5	1576.1	1541.8	1611.5	1675.2	1897.6	2044.2	1734.9
32.5°	1722.7	1725.8	1730.8	1698.5	1666.1	1581.2	1623.7	1674.2	1884.5	2076.6	1756.1
35°	1815.7	1828.9	1830.9	1820.8	1786.4	1702.5	1674.2	1717.7	1906.7	2134.2	1758.1
37.5°	1957.3	1943.1	1981.5	1985.6	1961.3	1850.1	1791.5	1808.7	1972.4	2226.2	1835.0
40°	2049.3	2066.5	2138.2	2182.7	2141.3	2040.2	1961.3	1958.3	2067.5	2370.8	1930.0
42.5°	2151.4	2189.8	2268.7	2364.7	2359.7	2265.6	2185.8	2172.6	2236.3	2580.1	2080.6
45°	2290.9	2325.3	2435.5	2580.1	2658.9	2579.0	2458.7	2432.4	2441.5	2865.2	2337.4
47.5°	2522.4	2513.3	2672.1	2814.6	2944.0	2882.3	2830.8	2753.9	2746.9	3200.8	2692.3
50°	2784.3	2782.3	2923.8	3085.5	3235.2	3355.5	3269.5	3185.6	3187.7	3656.8	3109.8
52.5°	3033.0	3072.4	3225.1	3385.8	3642.6	3772.0	3854.9	3821.6	3660.8	4064.2	3556.7
55°	3164.4	3198.8	3350.4	3627.4	4032.8	4365.5	4589.9	4561.6	4251.2	4523.2	3997.5
57.5°	3040.1	3063.3	3268.5	3631.5	4305.8	5047.9	5263.2	5227.8	4861.9	4874.0	4530.3
60°	2519.4	2555.8	2861.1	3286.7	4199.7	5573.6	6190.3	6136.7	5417.9	5317.8	4873.0
62.5°	1745.0	1769.2	2020.0	2549.7	3696.2	5756.6	7065.8	7095.1	6004.3	5663.6	4975.1
65°	1130.3	1128.3	1271.8	1630.7	2619.5	5202.6	7583.5	7765.4	6570.4	5716.2	4943.8
67°	798.7	795.7	863.4	1106.0	1813.7	4286.6	7574.4	7965.6	6877.8	5731.3	4653.6
67.5°	737.0	734.0	798.7	1017.1	1636.8	3986.3	7461.1	7862.5	6986.0	5710.1	4526.2
70°	572.2	564.1	588.4	700.6	953.4	2578.0	6385.4	7222.5	6761.5	5180.3	3614.3
72.5°	413.5	422.6	461.0	575.3	748.1	1387.1	4866.9	5840.5	5647.4	3904.5	2297.0
75°	288.1	296.2	357.9	469.1	686.5	841.1	3290.8	4236.1	3933.8	2155.4	978.6
77.5°	150.6	160.7	228.5	375.1	623.8	651.1	1966.4	2686.2	2084.7	767.3	269.9
80°	69.8	74.8	114.2	265.9	521.7	572.2	1146.5	1494.2	834.1	171.9	93.0
82.5°	30.3	33.4	52.6	152.7	370.0	500.4	709.7	783.5	302.3	55.6	57.6
85°	6.1	7.1	20.2	80.9	178.9	303.3	498.4	465.1	151.6	27.3	45.5
87.5°	0.0	0.0	5.1	23.3	48.5	90.0	211.3	211.3	46.5	14.2	17.2
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°	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5
2.5°	2158.5	2122.1	2042.2	1968.4	1915.8	1856.2	1777.3	1741.9	1728.8	1710.6	1683.3
5°	2101.9	2057.4	1920.9	1783.4	1632.8	1518.5	1397.2	1326.4	1272.8	1239.5	1228.4
7.5°	2022.0	1931.0	1747.0	1526.6	1331.5	1161.6	977.6	853.3	773.4	741.1	710.7
10°	1958.3	1840.0	1560.0	1286.0	1026.2	777.5	570.2	461.0	378.1	346.8	342.7
12.5°	1875.4	1733.9	1385.1	1040.3	713.8	463.0	315.4	274.0	250.7	246.7	243.6
15°	1806.6	1637.8	1219.3	805.8	462.0	289.1	245.7	235.6	229.5	227.5	228.5
17.5°	1760.1	1534.7	1049.4	586.4	304.3	236.6	226.5	220.4	217.4	216.4	213.3
20°	1668.1	1447.7	881.6	410.5	237.6	218.4	210.3	205.2	202.2	201.2	200.2
22.5°	1615.6	1337.5	713.8	286.1	211.3	198.2	192.1	188.0	183.0	180.0	178.9
25°	1563.0	1256.7	564.1	222.4	192.1	183.0	173.9	168.8	160.7	156.7	155.7
27.5°	1501.3	1176.8	434.7	193.1	172.9	163.8	154.7	146.6	136.5	132.4	130.4
30°	1465.9	1098.9	327.6	172.9	158.7	146.6	135.5	125.4	114.2	107.2	105.1
32.5°	1447.7	1028.2	245.7	157.7	143.6	130.4	116.3	104.1	94.0	88.0	86.9
35°	1425.5	959.4	193.1	143.6	129.4	115.3	101.1	89.0	78.9	73.8	71.8
37.5°	1448.8	919.0	160.7	132.4	118.3	102.1	86.9	74.8	66.7	61.7	60.7
40°	1512.4	885.6	139.5	122.3	107.2	90.0	75.8	63.7	56.6	52.6	50.5
42.5°	1610.5	885.6	126.4	112.2	97.1	78.9	64.7	55.6	48.5	44.5	43.5
45°	1788.4	912.9	115.3	102.1	84.9	67.7	55.6	46.5	39.4	35.4	34.4
47.5°	2038.2	975.6	106.2	93.0	75.8	59.6	48.5	39.4	32.4	28.3	27.3
50°	2373.8	1118.2	97.1	81.9	67.7	51.6	40.4	31.3	25.3	21.2	20.2
52.5°	2792.4	1320.4	88.0	75.8	57.6	43.5	32.4	25.3	19.2	16.2	15.2
55°	3235.2	1568.0	76.8	67.7	49.5	36.4	26.3	19.2	14.2	12.1	11.1
57.5°	3681.0	1759.1	67.7	58.6	40.4	29.3	21.2	15.2	10.1	8.1	7.1
60°	3917.6	1777.3	58.6	48.5	32.4	23.3	16.2	11.1	7.1	5.1	4.0
62.5°	3954.0	1615.6	50.5	39.4	26.3	18.2	11.1	8.1	4.0	2.0	2.0
65°	3767.0	1346.6	43.5	31.3	20.2	13.1	8.1	5.1	2.0	1.0	0.0
67°	3463.7	1128.3	37.4	26.3	16.2	10.1	6.1	3.0	1.0	0.0	0.0
67.5°	3346.4	1067.6	35.4	24.3	15.2	9.1	5.1	3.0	1.0	0.0	0.0
70°	2597.2	762.3	26.3	17.2	11.1	7.1	4.0	2.0	0.0	0.0	0.0
72.5°	1591.3	445.8	20.2	12.1	8.1	5.1	3.0	1.0	0.0	0.0	0.0
75°	667.3	153.7	17.2	9.1	6.1	3.0	2.0	1.0	0.0	0.0	0.0
77.5°	173.9	57.6	12.1	6.1	4.0	3.0	2.0	1.0	0.0	0.0	0.0
80°	70.8	26.3	8.1	4.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
82.5°	46.5	12.1	5.1	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	35.4	7.1	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.2	4.0	3.0	2.0	2.0	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)