

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: P484669

Luminaire Tested: **IFLD-S-SA3A-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484669
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

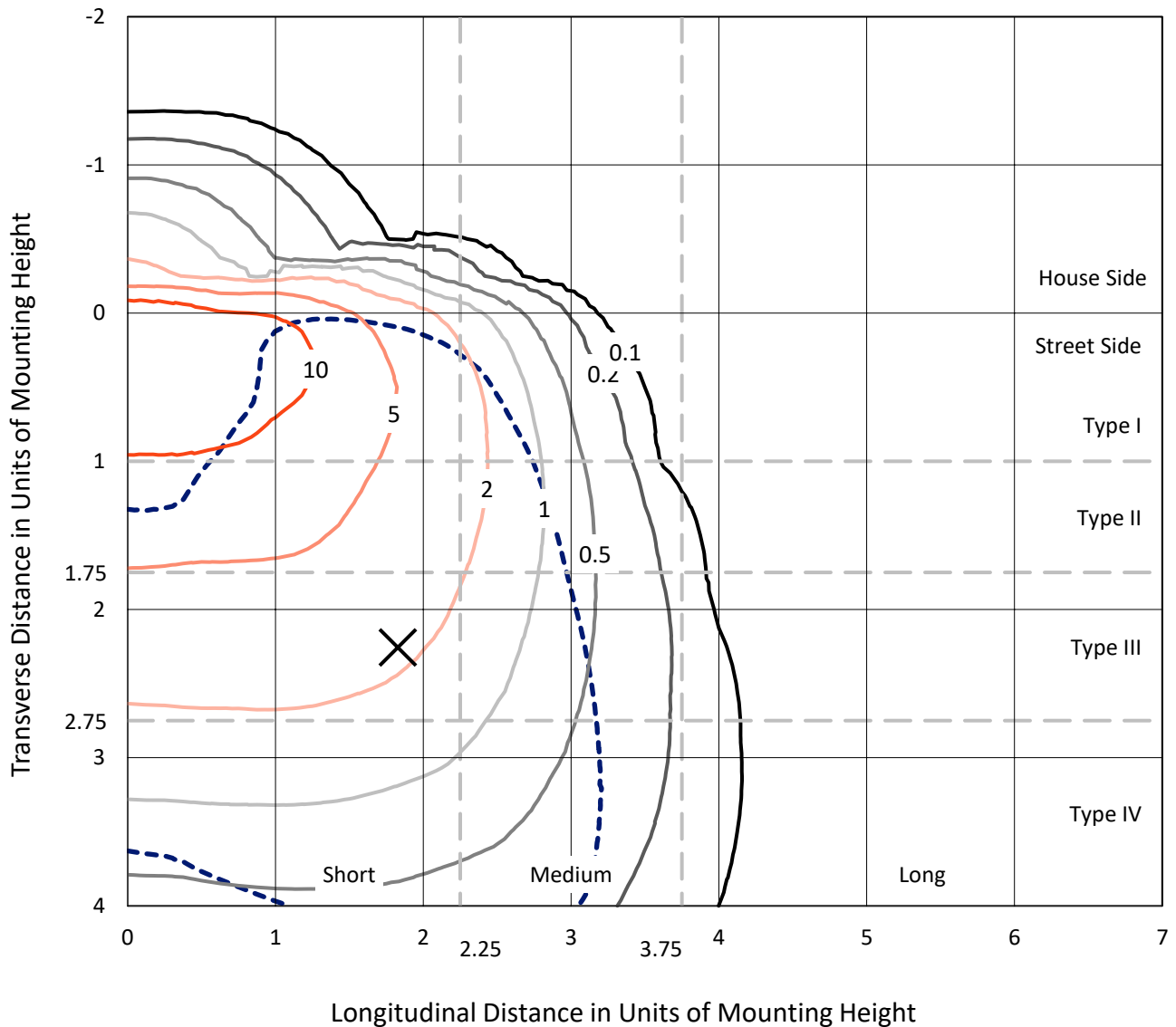
Lumens per Lamp: N/A
Luminaire Lumens: 9505.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

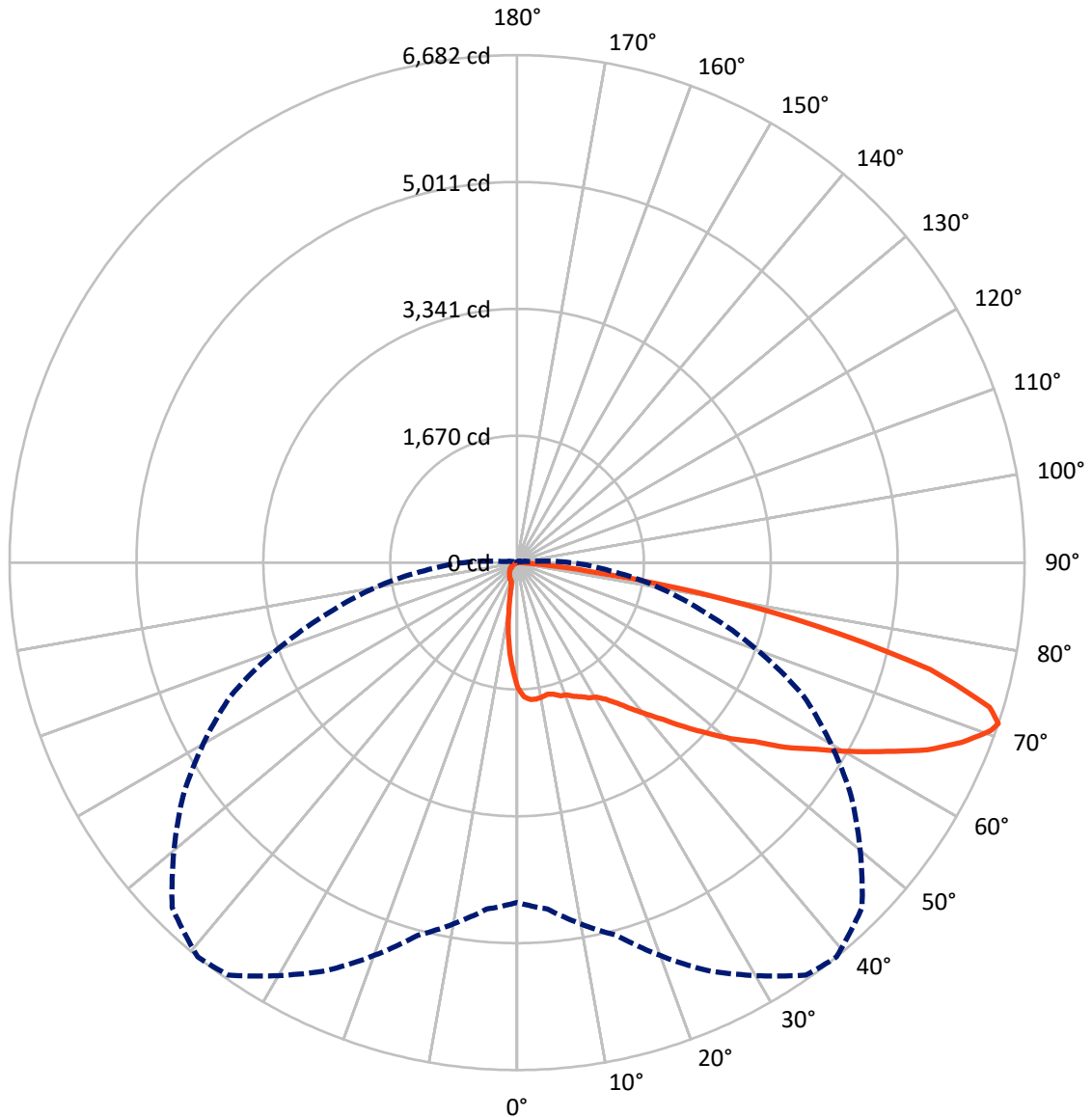
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 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	715.6	0.0	715.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8789.9	0.0	8789.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	9505.5	0.0	9505.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.5
10°-20°	340.5	3.6
20°-30°	546.6	5.8
30°-40°	836.7	8.8
40°-50°	1343.0	14.1
50°-60°	1972.6	20.8
60°-70°	2484.5	26.1
70°-80°	1658.1	17.4
80°-90°	185.3	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°	9505.5	100.0
0°-180°	9505.5	100.0

Coefficient of Utilization



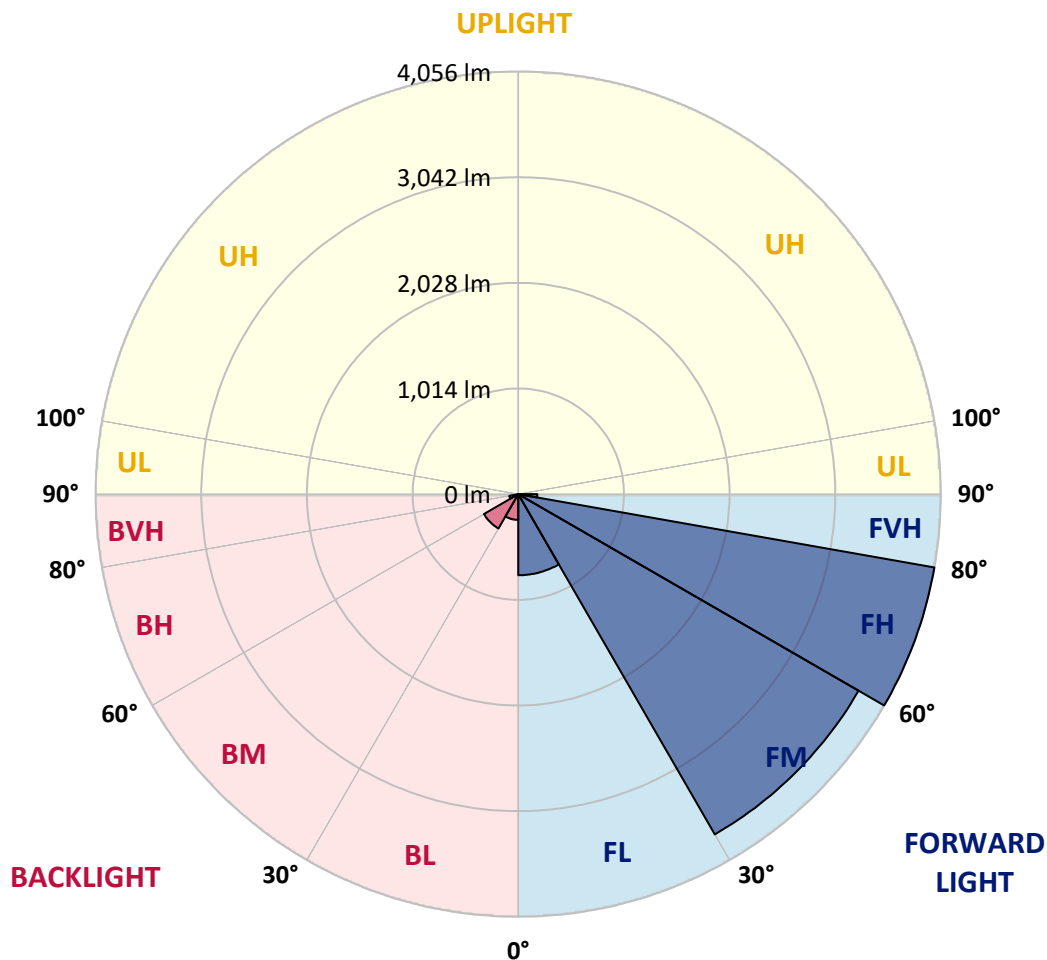
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.3	8.2			
FM (30°-60°)	3771.9	39.7			
FH (60°-80°)	4056.4	42.7			G2/5000
FVH (80°-90°)	183.3	1.9			G2/225
BL (0°-30°)	247.1	2.6	B1/500		
BM (30°-60°)	380.4	4.0	B1/1000		
BH (60°-80°)	86.1	0.9	B0/110		G0/110
BVH (80°-90°)	2.0	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°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1782.9	1800.4	1782.9	1775.4	1768.0	1769.2	1749.3	1753.0	1729.3	1698.1	1673.2
5°	1839.0	1862.7	1844.0	1835.3	1834.0	1810.3	1800.4	1776.7	1748.0	1699.4	1669.5
7.5°	1834.0	1829.0	1837.8	1830.3	1814.1	1814.1	1802.9	1769.2	1740.5	1685.7	1634.5
10°	1796.6	1811.6	1804.1	1795.4	1799.1	1800.4	1779.2	1755.5	1746.8	1691.9	1608.4
12.5°	1792.9	1768.0	1795.4	1796.6	1780.4	1779.2	1776.7	1770.4	1743.0	1693.1	1614.6
15°	1780.4	1770.4	1797.9	1799.1	1802.9	1799.1	1802.9	1797.9	1770.4	1741.8	1642.0
17.5°	1790.4	1779.2	1817.8	1836.5	1827.8	1845.3	1839.0	1816.6	1792.9	1759.2	1668.2
20°	1792.9	1809.1	1851.5	1859.0	1886.4	1857.7	1856.5	1832.8	1817.8	1781.7	1684.4
22.5°	1839.0	1846.5	1898.9	1915.1	1916.3	1912.6	1881.4	1854.0	1847.7	1802.9	1688.2
25°	1908.8	1935.0	1958.7	1968.7	1972.4	1955.0	1922.6	1887.6	1872.7	1844.0	1726.8
27.5°	2032.3	2016.1	2037.3	2052.2	2009.8	2016.1	1974.9	1945.0	1923.8	1898.9	1771.7
30°	2142.0	2127.0	2128.3	2125.8	2089.6	2056.0	2044.7	1992.4	1966.2	1976.2	1841.5
32.5°	2240.5	2208.1	2235.5	2223.0	2155.7	2145.7	2137.0	2070.9	2075.9	2122.0	1946.2
35°	2331.5	2320.3	2342.7	2320.3	2275.4	2272.9	2264.2	2206.8	2234.3	2300.3	2125.8
37.5°	2415.0	2418.8	2446.2	2435.0	2438.7	2441.2	2436.2	2375.1	2453.7	2602.1	2335.2
40°	2492.3	2487.4	2554.7	2589.6	2597.1	2624.5	2624.5	2609.5	2730.5	2897.5	2625.7
42.5°	2574.6	2587.1	2674.4	2733.0	2804.0	2827.7	2860.1	2867.6	3054.6	3245.4	2922.5
45°	2709.3	2688.1	2799.1	2937.4	2999.8	3083.3	3133.2	3175.6	3401.3	3663.1	3219.2
47.5°	2880.1	2837.7	2935.0	3135.7	3280.3	3348.9	3438.7	3494.8	3715.4	3986.0	3499.8
50°	3069.6	3026.0	3073.3	3350.1	3518.5	3643.1	3757.8	3828.9	4095.7	4347.6	3704.2
52.5°	3284.1	3244.2	3251.6	3573.3	3821.4	3912.4	4063.3	4169.3	4434.8	4565.8	3776.5
55°	3512.2	3502.2	3478.6	3791.5	4087.0	4291.5	4382.5	4509.7	4782.7	4684.2	3855.1
57.5°	3741.6	3710.5	3744.1	4080.8	4513.4	4635.6	4761.5	4837.6	4976.0	4787.7	3825.2
60°	3957.3	3959.8	4007.2	4394.9	4876.2	5049.5	5163.0	5116.8	5174.2	4832.6	3756.6
62.5°	4139.4	4134.4	4254.1	4747.8	5356.2	5473.4	5558.2	5352.5	5266.5	4876.2	3636.9
65°	4302.7	4358.8	4547.1	5168.0	5807.6	5942.2	5891.1	5575.7	5356.2	4747.8	3300.3
67.5°	4426.1	4509.7	4836.3	5563.2	6221.5	6316.3	6245.2	5745.2	5250.3	4244.1	2688.1
70°	4498.4	4583.2	5043.3	5892.3	6551.9	6620.5	6453.4	5614.3	4631.8	3073.3	1676.9
71°	4476.0	4579.5	5083.2	5927.3	6630.5	6681.6	6422.2	5372.4	4165.5	2573.4	1223.1
72.5°	4272.8	4370.0	4917.4	5902.3	6535.7	6504.5	6179.1	4791.4	3279.1	1640.8	632.1
75°	3139.4	3244.2	4220.4	5105.6	5833.8	5619.3	5000.9	3362.6	1710.6	502.5	184.5
77.5°	1563.5	1580.9	2619.5	3706.7	4279.0	4065.8	3351.4	1875.2	639.6	148.4	92.3
80°	720.6	725.6	982.5	1920.1	2587.1	2435.0	1877.7	925.1	289.3	78.5	72.3
82.5°	491.2	498.7	592.2	795.5	1123.4	947.6	760.5	592.2	165.8	47.4	71.1
85°	89.8	82.3	331.6	421.4	433.9	294.2	263.1	512.4	62.3	27.4	62.3
87.5°	0.0	1.2	46.1	172.1	154.6	68.6	89.8	124.7	6.2	8.7	11.2
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°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1652.0	1638.3	1592.2	1541.0	1494.9	1458.7	1412.6	1391.4	1357.8	1339.1	1337.8
5°	1628.3	1590.9	1511.1	1425.1	1329.1	1249.3	1160.8	1110.9	1053.5	1036.1	1032.3
7.5°	1588.4	1534.8	1417.6	1296.7	1149.5	1008.7	900.2	784.2	713.2	683.2	672.0
10°	1563.5	1498.6	1339.1	1158.3	952.6	754.3	602.2	478.8	413.9	382.8	375.3
12.5°	1563.5	1493.7	1275.5	1026.1	753.1	516.2	372.8	301.7	280.5	273.0	273.0
15°	1559.7	1483.7	1214.4	890.2	557.3	346.6	278.0	263.1	260.6	259.3	258.1
17.5°	1578.4	1466.2	1152.0	744.3	394.0	273.0	255.6	253.1	250.6	250.6	248.1
20°	1592.2	1456.3	1077.2	589.7	294.2	253.1	245.6	241.9	240.6	239.4	241.9
22.5°	1580.9	1441.3	985.0	441.4	256.8	240.6	235.6	231.9	229.4	229.4	230.7
25°	1602.1	1427.6	892.7	332.9	240.6	229.4	224.4	221.9	220.7	219.4	216.9
27.5°	1630.8	1433.8	783.0	268.1	226.9	218.2	213.2	210.7	209.5	207.0	209.5
30°	1665.7	1432.6	662.0	234.4	214.4	205.7	200.7	199.5	197.0	195.7	197.0
32.5°	1725.6	1465.0	537.4	216.9	200.7	193.3	188.3	187.0	185.8	184.5	183.3
35°	1854.0	1504.9	420.2	203.2	188.3	179.5	175.8	173.3	172.1	170.8	169.6
37.5°	2012.3	1593.4	320.4	190.8	175.8	167.1	163.3	162.1	157.1	155.8	154.6
40°	2210.6	1688.2	246.9	177.0	164.6	155.8	152.1	148.4	142.1	139.6	137.1
42.5°	2457.4	1780.4	203.2	164.6	152.1	145.9	139.6	133.4	128.4	123.4	120.9
45°	2704.3	1887.6	178.3	153.4	142.1	134.7	129.7	120.9	112.2	104.7	103.5
47.5°	2910.0	1926.3	163.3	140.9	132.2	125.9	118.4	107.2	94.8	87.3	86.0
50°	3063.4	1903.9	148.4	128.4	120.9	114.7	104.7	91.0	78.5	71.1	68.6
52.5°	3093.3	1805.4	134.7	118.4	109.7	102.2	91.0	76.1	62.3	54.9	53.6
55°	3072.1	1642.0	123.4	109.7	99.7	88.5	76.1	61.1	48.6	41.1	39.9
57.5°	3028.5	1448.8	111.0	98.5	87.3	76.1	62.3	49.9	36.2	28.7	28.7
60°	2880.1	1185.7	98.5	86.0	74.8	64.8	51.1	36.2	24.9	18.7	17.5
62.5°	2673.1	911.4	86.0	73.6	64.8	53.6	39.9	26.2	15.0	10.0	10.0
65°	2295.3	638.4	72.3	61.1	53.6	43.6	29.9	16.2	8.7	3.7	3.7
67.5°	1744.3	395.2	59.8	51.1	46.1	34.9	21.2	10.0	3.7	1.2	0.0
70°	1001.2	205.7	47.4	41.1	36.2	26.2	15.0	5.0	2.5	0.0	0.0
71°	699.5	152.1	42.4	36.2	32.4	23.7	12.5	3.7	1.2	0.0	0.0
72.5°	350.3	101.0	36.2	29.9	26.2	18.7	10.0	3.7	1.2	0.0	0.0
75°	124.7	64.8	24.9	19.9	18.7	13.7	6.2	2.5	1.2	0.0	0.0
77.5°	86.0	52.4	17.5	12.5	12.5	8.7	3.7	1.2	1.2	0.0	0.0
80°	78.5	28.7	11.2	7.5	6.2	5.0	2.5	1.2	0.0	0.0	0.0
82.5°	78.5	21.2	6.2	5.0	3.7	2.5	1.2	0.0	0.0	0.0	0.0
85°	54.9	11.2	3.7	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.7	2.5	1.2	1.2	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)