

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: P483675

Luminaire Tested: **IFLD-M-SA4A-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483675
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

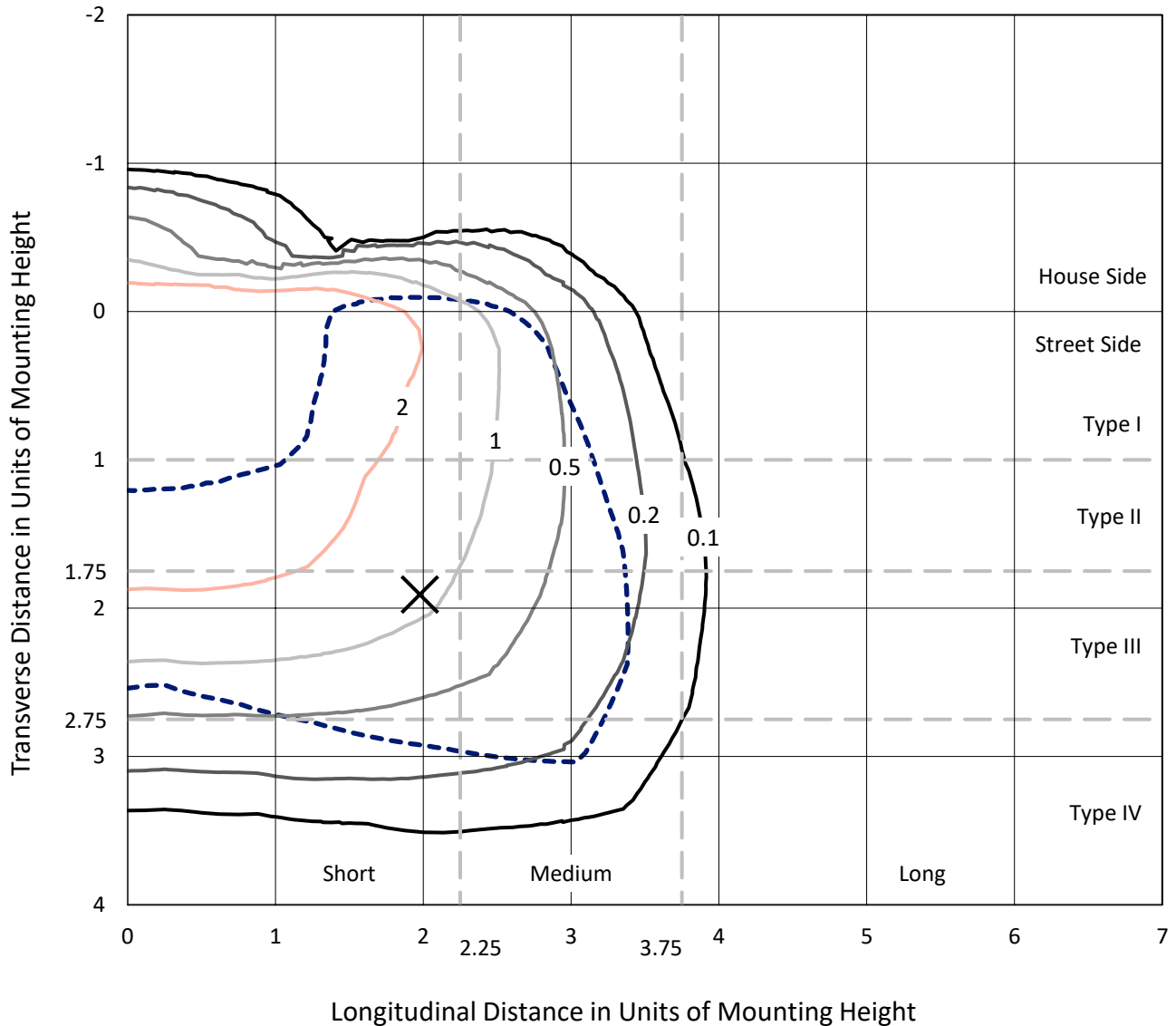
Lumens per Lamp: N/A
Luminaire Lumens: 13937.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
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

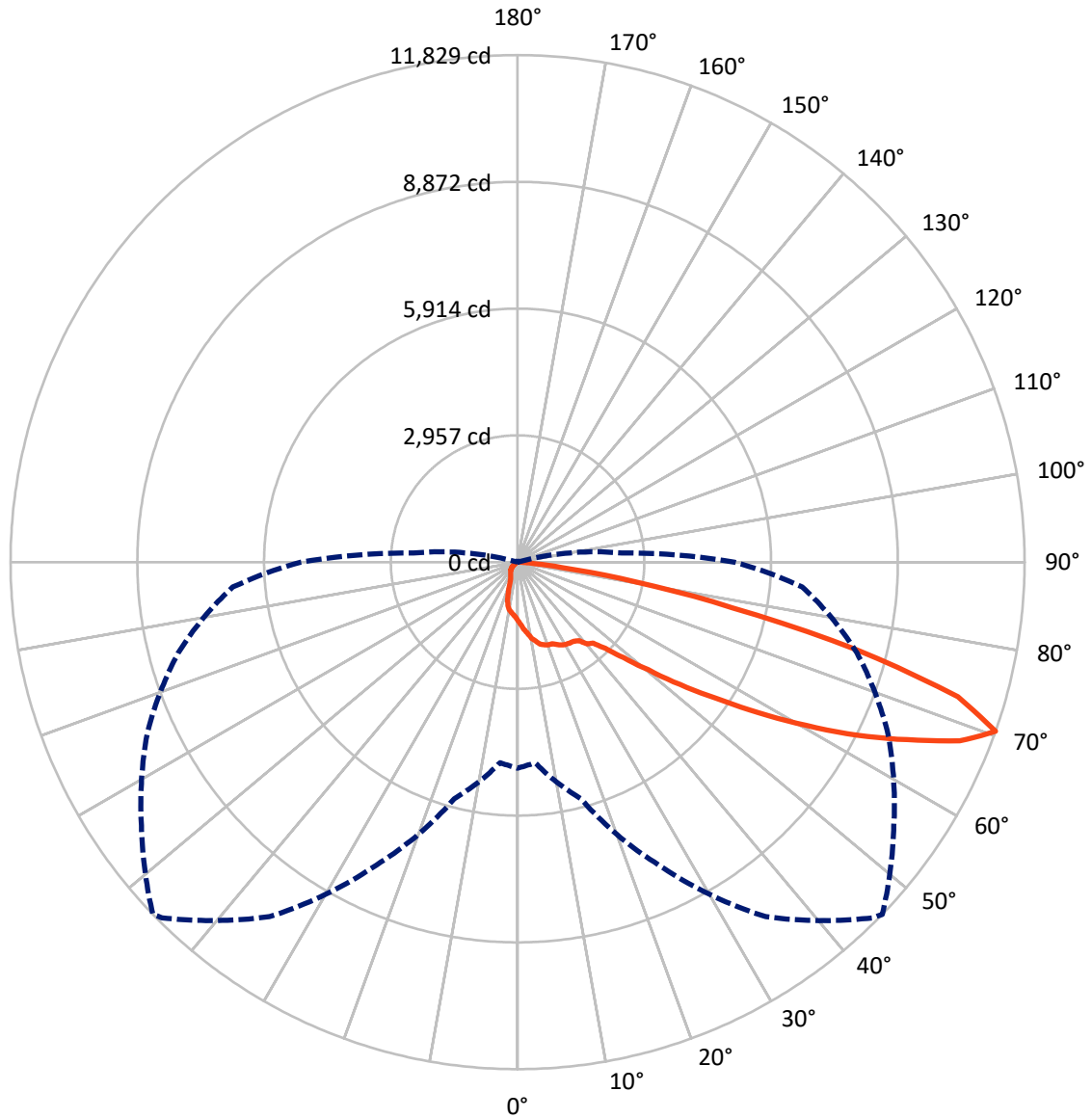
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1386.9	0.0	1386.9
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	12551.1	0.0	12551.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	13937.9	0.0	13937.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.0
10°-20°	412.0	3.0
20°-30°	660.0	4.7
30°-40°	942.0	6.8
40°-50°	1626.6	11.7
50°-60°	3114.2	22.3
60°-70°	4611.7	33.1
70°-80°	2284.1	16.4
80°-90°	150.9	1.1
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°	13937.9	100.0
0°-180°	13937.9	100.0

Coefficient of Utilization



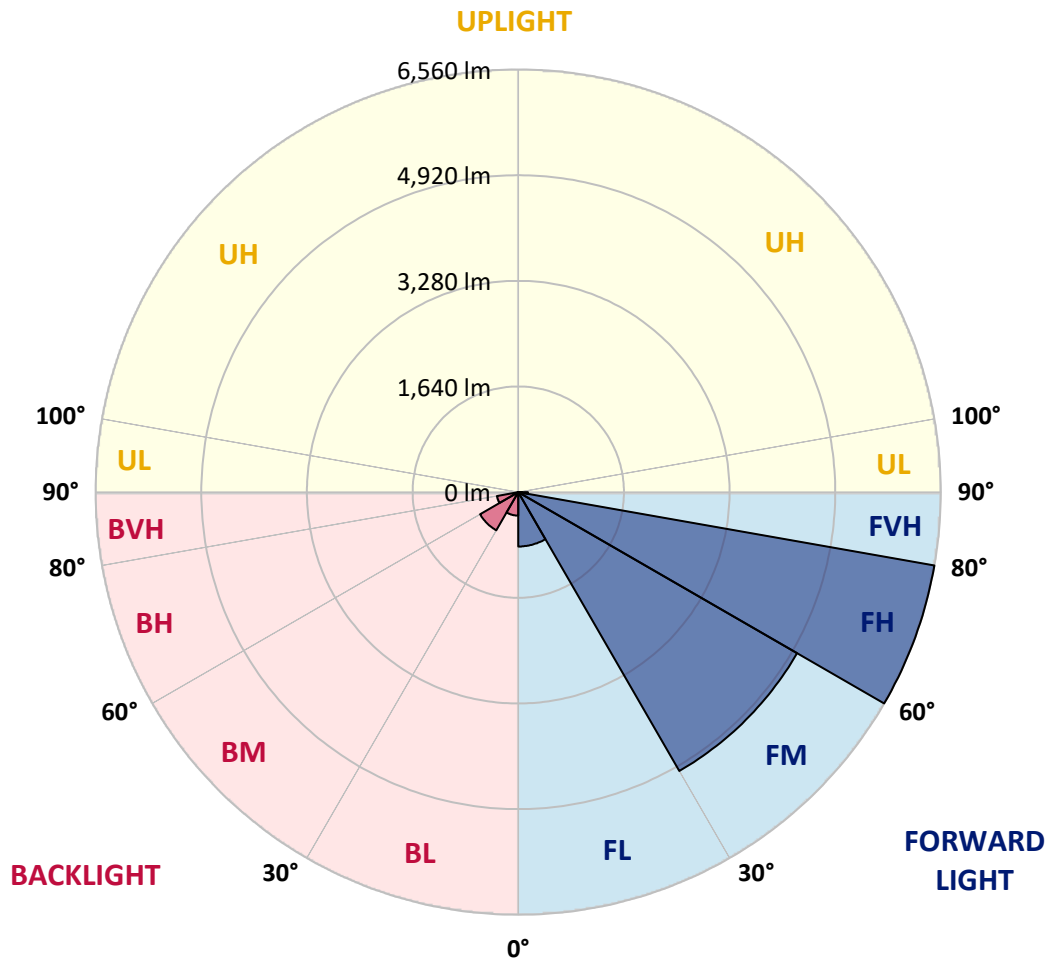
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.0	6.1			
FM (30°-60°)	4998.1	35.9			
FH (60°-80°)	6559.9	47.1			G3/7500
FVH (80°-90°)	149.0	1.1			G2/225
BL (0°-30°)	364.4	2.6	B1/500		
BM (30°-60°)	684.7	4.9	B1/1000		
BH (60°-80°)	335.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3
2.5°	1526.8	1516.7	1500.7	1494.7	1478.6	1470.6	1458.6	1452.5	1430.5	1408.4	1394.4
5°	1713.3	1689.3	1697.3	1673.2	1621.1	1578.9	1576.9	1530.8	1480.6	1440.5	1386.3
7.5°	1901.9	1881.9	1851.8	1817.7	1759.5	1697.3	1679.2	1635.1	1564.9	1494.7	1422.4
10°	2044.4	2030.3	2004.3	1956.1	1875.9	1805.6	1807.6	1733.4	1659.2	1578.9	1480.6
12.5°	2132.7	2138.7	2100.6	2052.4	1982.2	1893.9	1891.9	1841.7	1757.5	1673.2	1556.9
15°	2220.9	2243.0	2184.8	2128.6	2038.4	1974.2	1986.2	1926.0	1843.8	1747.5	1619.1
17.5°	2235.0	2241.0	2229.0	2146.7	2080.5	2026.3	2028.3	1988.2	1926.0	1821.7	1711.3
20°	2210.9	2206.9	2192.8	2132.7	2088.5	2056.4	2058.4	2048.4	2014.3	1930.0	1779.6
22.5°	2140.7	2140.7	2122.6	2082.5	2062.4	2092.5	2068.5	2106.6	2070.5	2020.3	1895.9
25°	2084.5	2106.6	2096.5	2070.5	2078.5	2118.6	2130.6	2166.8	2160.7	2098.5	1976.2
27.5°	2144.7	2118.6	2124.6	2094.5	2124.6	2184.8	2190.8	2216.9	2214.9	2164.8	2048.4
30°	2184.8	2208.9	2162.7	2096.5	2128.6	2231.0	2226.9	2261.1	2277.1	2216.9	2116.6
32.5°	2313.2	2293.2	2255.0	2166.8	2170.8	2229.0	2247.0	2291.1	2301.2	2265.1	2182.8
35°	2576.0	2545.9	2379.4	2247.0	2226.9	2255.0	2267.1	2353.3	2371.4	2331.3	2253.0
37.5°	2981.3	2913.1	2712.5	2419.5	2329.3	2323.2	2323.2	2437.6	2505.8	2413.5	2357.4
40°	3561.1	3464.8	3248.1	2738.5	2463.7	2487.8	2511.8	2574.0	2566.0	2505.8	2493.8
42.5°	4299.4	4225.2	3990.5	3274.2	2720.5	2600.1	2580.1	2664.3	2790.7	2766.6	2758.6
45°	4915.3	4919.3	4768.9	4008.5	3163.9	2858.9	2873.0	2937.2	3149.8	3131.8	3129.8
47.5°	5364.7	5308.6	5286.5	4716.7	3809.9	3350.5	3330.4	3374.5	3651.4	3765.7	3817.9
50°	5774.0	5735.9	5683.7	5404.9	4586.3	3966.4	3946.3	3950.3	4373.6	4534.1	4662.5
52.5°	6281.6	6329.7	6157.2	5986.7	5591.4	4766.9	4744.8	4666.6	5192.2	5412.9	5565.4
55°	6907.6	6817.3	6622.7	6710.9	6552.4	5631.6	5591.4	5499.2	6125.1	6217.4	6377.9
57.5°	7046.0	6977.8	7178.4	7491.4	7643.8	6646.7	6630.7	6464.2	6909.6	6825.3	7278.7
60°	7391.1	7409.1	7688.0	8309.9	8574.8	7818.4	7740.2	7447.2	7669.9	7686.0	8169.5
62.5°	7746.2	7704.0	8328.0	8925.8	9333.1	8927.9	8901.8	8320.0	8572.7	8368.1	9008.1
65°	7485.4	7549.6	8442.3	9443.5	10316.2	10013.2	9991.2	9160.6	9299.0	9044.2	9349.2
67.5°	6558.5	6428.1	7678.0	9206.7	10821.8	11150.8	11126.7	10077.4	9708.3	9040.2	8641.0
70°	4807.0	4694.6	5713.8	7796.3	10097.5	11732.6	11828.9	10715.4	9541.8	8197.6	6666.8
72.5°	2355.3	2357.4	3202.0	5286.5	7988.9	10693.4	10741.5	9824.7	8197.6	6042.9	3775.8
75°	696.2	704.2	1185.7	2592.1	5164.1	8121.3	8175.5	7457.3	5681.7	3121.7	1288.0
77.5°	254.8	254.8	393.2	973.0	2576.0	5126.0	5122.0	4578.3	2877.0	1057.3	300.9
80°	132.4	138.4	204.6	397.2	1115.5	2670.3	2770.6	2241.0	1093.4	445.4	88.3
82.5°	54.2	60.2	112.4	204.6	535.7	936.9	1025.2	878.7	475.5	311.0	40.1
85°	16.1	18.1	54.2	114.4	210.7	234.7	260.8	294.9	298.9	240.8	18.1
87.5°	2.0	2.0	22.1	38.1	46.1	50.2	58.2	58.2	152.5	168.5	10.0
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°	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3	1368.3
2.5°	1378.3	1368.3	1352.2	1316.1	1308.1	1282.0	1280.0	1255.9	1263.9	1247.9	1241.9
5°	1368.3	1346.2	1302.1	1274.0	1245.9	1227.8	1215.8	1205.8	1203.8	1195.7	1191.7
7.5°	1386.3	1356.2	1288.0	1243.9	1195.7	1179.7	1153.6	1151.6	1137.5	1123.5	1123.5
10°	1446.5	1392.3	1318.1	1243.9	1181.7	1129.5	1069.3	1025.2	1009.1	973.0	977.0
12.5°	1494.7	1446.5	1338.2	1261.9	1167.6	1049.3	916.9	814.5	766.4	720.2	738.3
15°	1562.9	1492.7	1376.3	1265.9	1113.5	908.8	692.2	577.8	533.7	523.6	521.6
17.5°	1637.1	1562.9	1424.4	1255.9	1003.1	702.2	509.6	443.4	451.4	463.4	461.4
20°	1719.4	1629.1	1460.6	1221.8	828.6	509.6	417.3	415.3	427.3	445.4	449.4
22.5°	1805.6	1727.4	1504.7	1119.5	617.9	409.3	401.3	401.3	409.3	431.3	427.3
25°	1901.9	1797.6	1526.8	961.0	443.4	377.2	381.2	389.2	393.2	411.3	413.3
27.5°	1976.2	1875.9	1532.8	770.4	361.1	349.1	359.1	369.2	375.2	389.2	395.2
30°	2044.4	1974.2	1500.7	573.8	331.0	325.0	329.0	343.1	355.1	367.1	367.1
32.5°	2130.6	2030.3	1426.5	407.3	313.0	302.9	300.9	307.0	321.0	335.0	335.0
35°	2218.9	2124.6	1308.1	327.0	296.9	282.9	274.9	268.8	274.9	284.9	292.9
37.5°	2347.3	2267.1	1159.6	300.9	284.9	264.8	248.8	234.7	224.7	222.7	228.7
40°	2529.9	2427.6	969.0	282.9	270.8	246.8	222.7	198.6	176.6	162.5	164.5
42.5°	2806.8	2664.3	762.4	272.9	260.8	226.7	192.6	158.5	130.4	116.4	116.4
45°	3202.0	2977.3	559.7	262.8	248.8	202.6	158.5	118.4	90.3	82.3	84.3
47.5°	3797.8	3354.5	401.3	246.8	232.7	176.6	124.4	84.3	66.2	62.2	64.2
50°	4576.3	3801.9	313.0	228.7	212.7	148.5	92.3	62.2	52.2	50.2	52.2
52.5°	5392.8	4253.3	274.9	212.7	182.6	118.4	68.2	50.2	44.1	42.1	44.1
55°	6091.0	4544.2	238.7	188.6	146.5	88.3	54.2	44.1	38.1	32.1	32.1
57.5°	6797.2	4690.6	188.6	156.5	108.3	66.2	46.1	38.1	32.1	26.1	24.1
60°	7371.0	4795.0	134.4	116.4	76.2	52.2	40.1	34.1	26.1	20.1	18.1
62.5°	7748.2	4496.0	98.3	88.3	56.2	44.1	34.1	28.1	20.1	14.0	14.0
65°	7561.6	4082.7	76.2	62.2	42.1	34.1	28.1	20.1	14.0	8.0	6.0
67.5°	6785.2	3326.4	62.2	46.1	32.1	26.1	22.1	16.1	8.0	2.0	2.0
70°	5061.8	2437.6	50.2	34.1	26.1	20.1	16.1	10.0	4.0	2.0	0.0
72.5°	2768.6	1334.2	40.1	28.1	20.1	16.1	12.0	8.0	4.0	0.0	0.0
75°	914.9	355.1	30.1	20.1	12.0	10.0	8.0	6.0	2.0	0.0	0.0
77.5°	220.7	92.3	24.1	18.1	10.0	6.0	4.0	2.0	2.0	0.0	0.0
80°	68.2	38.1	18.1	12.0	8.0	6.0	2.0	0.0	0.0	0.0	0.0
82.5°	28.1	18.1	8.0	8.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	10.0	6.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	4.0	2.0	2.0	0.0	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)