

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: P483792

Luminaire Tested: **IFLD-M-SA4A-830-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483792
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

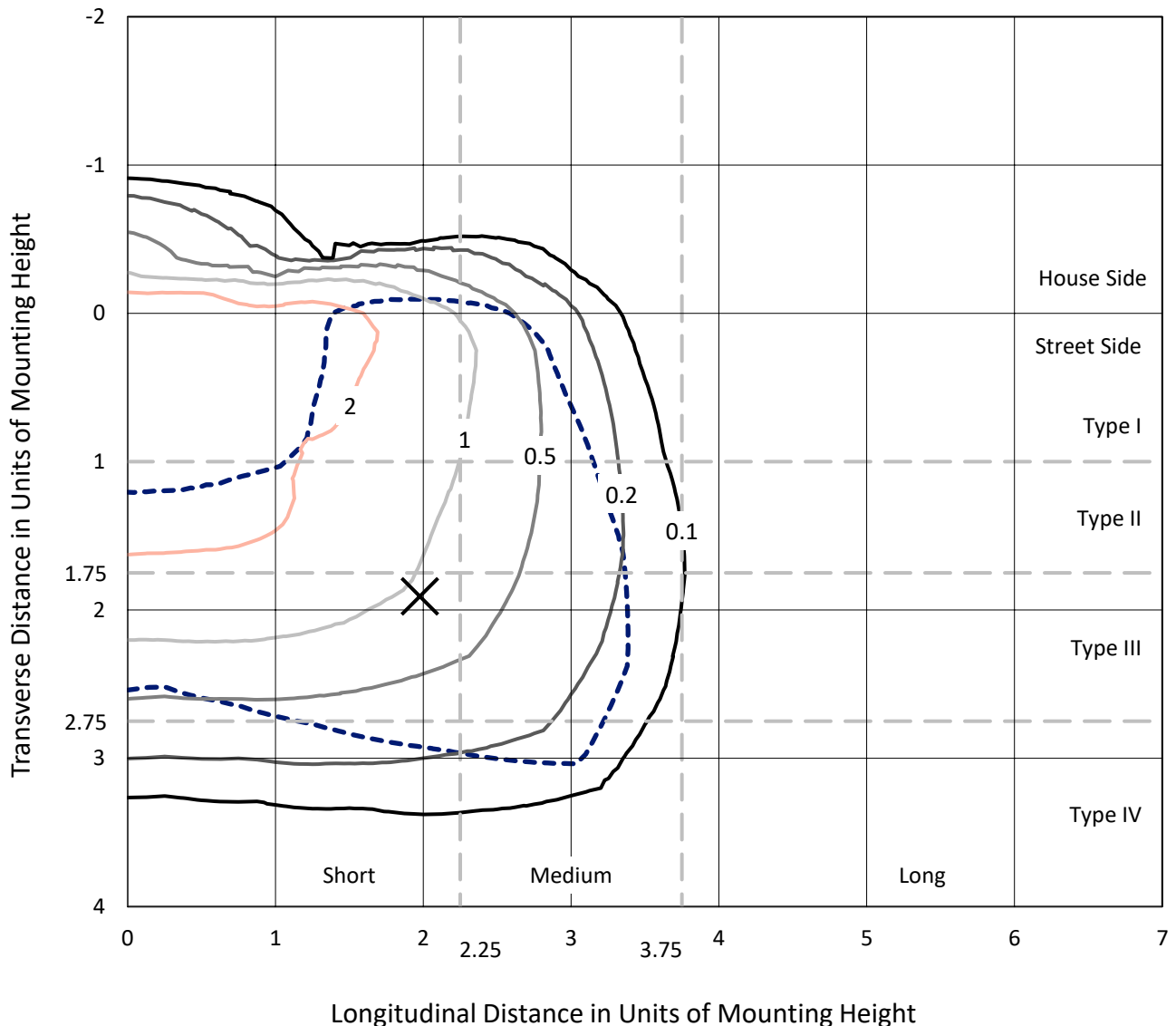
Lumens per Lamp: N/A
Luminaire Lumens: 10827.1 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

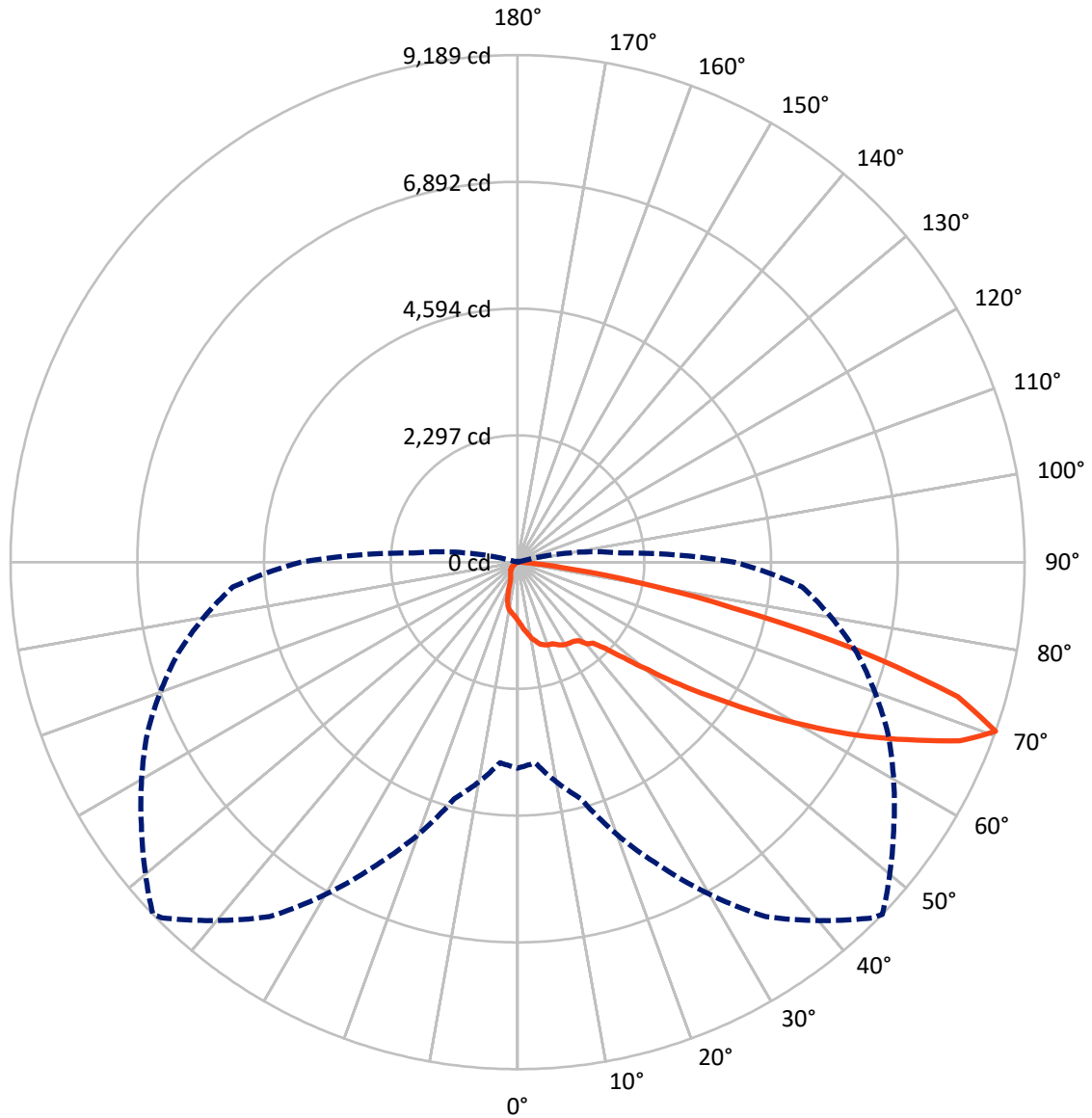
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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	1077.3	0.0	1077.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	9749.8	0.0	9749.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	10827.1	0.0	10827.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	1.0
10°-20°	320.1	3.0
20°-30°	512.7	4.7
30°-40°	731.8	6.8
40°-50°	1263.5	11.7
50°-60°	2419.2	22.3
60°-70°	3582.4	33.1
70°-80°	1774.3	16.4
80°-90°	117.2	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°	10827.1	100.0
0°-180°	10827.1	100.0

Coefficient of Utilization



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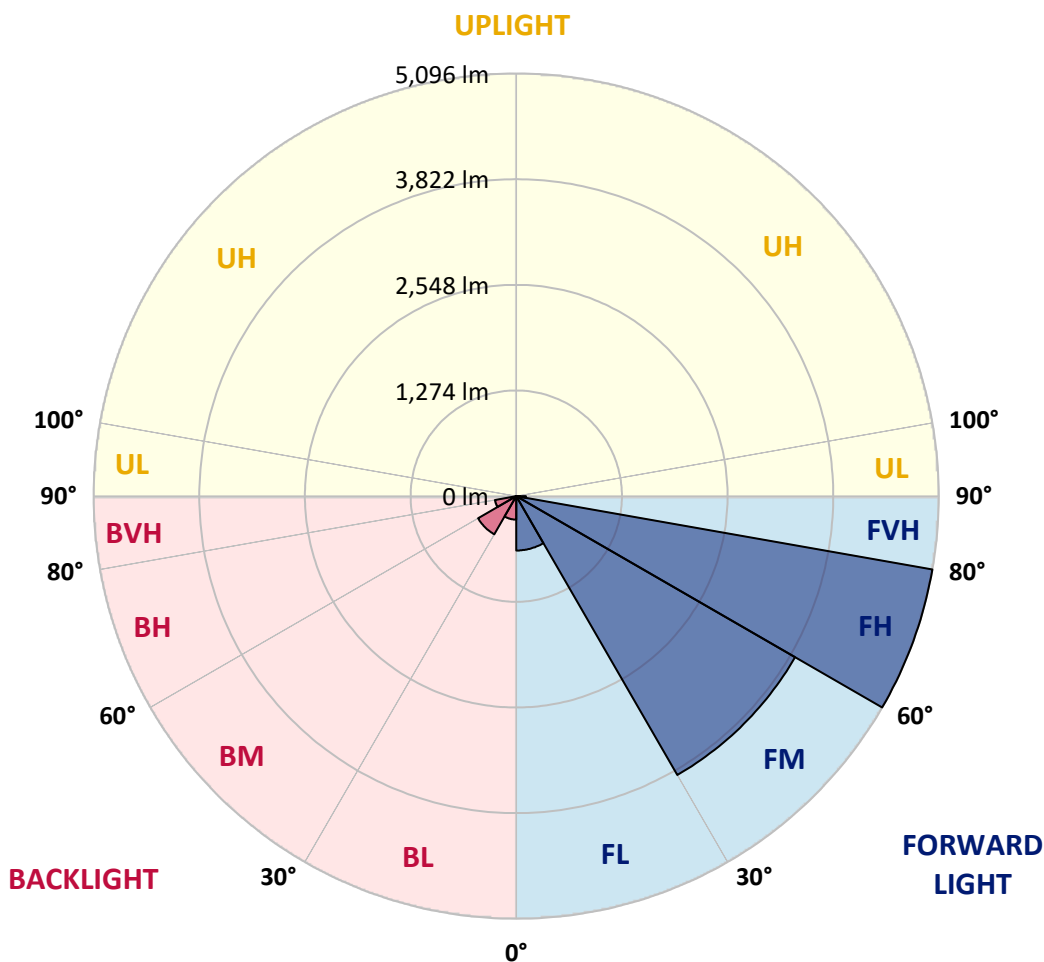
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.7	6.1			
FM (30°-60°)	3882.6	35.9			
FH (60°-80°)	5095.8	47.1			G3/7500
FVH (80°-90°)	115.8	1.1			G2/225
BL (0°-30°)	283.0	2.6	B1/500		
BM (30°-60°)	531.9	4.9	B1/1000		
BH (60°-80°)	260.9	2.4	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9
2.5°	1186.0	1178.2	1165.7	1161.1	1148.6	1142.4	1133.0	1128.3	1111.2	1094.1	1083.1
5°	1330.9	1312.2	1318.5	1299.8	1259.3	1226.5	1225.0	1189.1	1150.2	1119.0	1076.9
7.5°	1477.4	1461.9	1438.5	1412.0	1366.8	1318.5	1304.5	1270.2	1215.6	1161.1	1105.0
10°	1588.1	1577.2	1556.9	1519.5	1457.2	1402.6	1404.2	1346.5	1288.9	1226.5	1150.2
12.5°	1656.7	1661.3	1631.7	1594.3	1539.8	1471.2	1469.7	1430.7	1365.2	1299.8	1209.4
15°	1725.2	1742.4	1697.2	1653.6	1583.4	1533.5	1542.9	1496.1	1432.2	1357.4	1257.7
17.5°	1736.2	1740.8	1731.5	1667.6	1616.1	1574.1	1575.6	1544.5	1496.1	1415.1	1329.4
20°	1717.5	1714.3	1703.4	1656.7	1622.4	1597.4	1599.0	1591.2	1564.7	1499.3	1382.4
22.5°	1662.9	1662.9	1648.9	1617.7	1602.1	1625.5	1606.8	1636.4	1608.4	1569.4	1472.8
25°	1619.3	1636.4	1628.6	1608.4	1614.6	1645.8	1655.1	1683.2	1678.5	1630.2	1535.1
27.5°	1666.0	1645.8	1650.4	1627.1	1650.4	1697.2	1701.9	1722.1	1720.6	1681.6	1591.2
30°	1697.2	1715.9	1680.0	1628.6	1653.6	1733.0	1729.9	1756.4	1768.9	1722.1	1644.2
32.5°	1796.9	1781.3	1751.7	1683.2	1686.3	1731.5	1745.5	1779.8	1787.6	1759.5	1695.6
35°	2001.1	1977.7	1848.4	1745.5	1729.9	1751.7	1761.1	1828.1	1842.1	1811.0	1750.2
37.5°	2315.9	2262.9	2107.1	1879.5	1809.4	1804.7	1804.7	1893.6	1946.5	1874.9	1831.2
40°	2766.3	2691.5	2523.2	2127.3	1913.8	1932.5	1951.2	1999.5	1993.3	1946.5	1937.2
42.5°	3339.8	3282.2	3099.8	2543.4	2113.3	2019.8	2004.2	2069.7	2167.9	2149.2	2142.9
45°	3818.3	3821.4	3704.5	3113.9	2457.7	2220.8	2231.8	2281.6	2446.8	2432.8	2431.2
47.5°	4167.4	4123.8	4106.6	3664.0	2959.6	2602.7	2587.1	2621.4	2836.4	2925.3	2965.8
50°	4485.3	4455.7	4415.2	4198.6	3562.7	3081.1	3065.5	3068.7	3397.5	3522.2	3621.9
52.5°	4879.6	4917.0	4783.0	4650.5	4343.5	3703.0	3685.8	3625.0	4033.4	4204.8	4323.2
55°	5365.9	5295.7	5144.6	5213.1	5090.0	4374.7	4343.5	4271.8	4758.1	4829.7	4954.4
57.5°	5473.4	5420.4	5576.3	5819.4	5937.8	5163.3	5150.8	5021.4	5367.4	5302.0	5654.2
60°	5741.5	5755.5	5972.1	6455.2	6661.0	6073.4	6012.6	5785.1	5958.1	5970.6	6346.1
62.5°	6017.3	5984.6	6469.3	6933.7	7250.1	6935.3	6915.0	6463.0	6659.4	6500.4	6997.6
65°	5814.7	5864.6	6558.1	7335.8	8013.7	7778.4	7761.3	7116.0	7223.6	7025.6	7262.5
67.5°	5094.7	4993.4	5964.3	7151.9	8406.5	8662.1	8643.4	7828.3	7541.5	7022.5	6712.4
70°	3734.1	3646.9	4438.6	6056.3	7843.9	9114.0	9188.8	8323.9	7412.2	6368.0	5178.8
72.5°	1829.7	1831.2	2487.3	4106.6	6205.9	8306.7	8344.1	7631.9	6368.0	4694.2	2933.1
75°	540.8	547.0	921.1	2013.6	4011.5	6308.7	6350.8	5792.9	4413.6	2425.0	1000.5
77.5°	197.9	197.9	305.5	755.9	2001.1	3981.9	3978.8	3556.5	2234.9	821.3	233.8
80°	102.9	107.5	159.0	308.6	866.5	2074.3	2152.3	1740.8	849.4	346.0	68.6
82.5°	42.1	46.8	87.3	159.0	416.1	727.8	796.4	682.6	369.4	241.6	31.2
85°	12.5	14.0	42.1	88.8	163.6	182.3	202.6	229.1	232.2	187.0	14.0
87.5°	1.6	1.6	17.1	29.6	35.8	39.0	45.2	45.2	118.4	130.9	7.8
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°	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9	1062.9
2.5°	1070.7	1062.9	1050.4	1022.4	1016.1	995.9	994.3	975.6	981.8	969.4	964.7
5°	1062.9	1045.7	1011.5	989.6	967.8	953.8	944.4	936.6	935.1	928.9	925.7
7.5°	1076.9	1053.5	1000.5	966.3	928.9	916.4	896.1	894.6	883.7	872.8	872.8
10°	1123.7	1081.6	1023.9	966.3	917.9	877.4	830.7	796.4	783.9	755.9	759.0
12.5°	1161.1	1123.7	1039.5	980.3	907.0	815.1	712.2	632.7	595.3	559.5	573.5
15°	1214.1	1159.5	1069.1	983.4	865.0	706.0	537.7	448.8	414.6	406.8	405.2
17.5°	1271.7	1214.1	1106.5	975.6	779.2	545.5	395.9	344.4	350.7	360.0	358.5
20°	1335.6	1265.5	1134.6	949.1	643.7	395.9	324.2	322.6	332.0	346.0	349.1
22.5°	1402.6	1341.9	1168.9	869.6	480.0	317.9	311.7	311.7	317.9	335.1	332.0
25°	1477.4	1396.4	1186.0	746.5	344.4	293.0	296.1	302.3	305.5	319.5	321.0
27.5°	1535.1	1457.2	1190.7	598.5	280.5	271.2	279.0	286.8	291.4	302.3	307.0
30°	1588.1	1533.5	1165.7	445.7	257.1	252.5	255.6	266.5	275.9	285.2	285.2
32.5°	1655.1	1577.2	1108.1	316.4	243.1	235.3	233.8	238.4	249.4	260.3	260.3
35°	1723.7	1650.4	1016.1	254.0	230.7	219.7	213.5	208.8	213.5	221.3	227.5
37.5°	1823.4	1761.1	900.8	233.8	221.3	205.7	193.3	182.3	174.6	173.0	177.7
40°	1965.2	1885.8	752.7	219.7	210.4	191.7	173.0	154.3	137.1	126.2	127.8
42.5°	2180.3	2069.7	592.2	212.0	202.6	176.1	149.6	123.1	101.3	90.4	90.4
45°	2487.3	2312.8	434.8	204.2	193.3	157.4	123.1	92.0	70.1	63.9	65.5
47.5°	2950.2	2605.8	311.7	191.7	180.8	137.1	96.6	65.5	51.4	48.3	49.9
50°	3554.9	2953.3	243.1	177.7	165.2	115.3	71.7	48.3	40.5	39.0	40.5
52.5°	4189.2	3304.0	213.5	165.2	141.8	92.0	53.0	39.0	34.3	32.7	34.3
55°	4731.6	3530.0	185.5	146.5	113.8	68.6	42.1	34.3	29.6	24.9	24.9
57.5°	5280.1	3643.7	146.5	121.6	84.2	51.4	35.8	29.6	24.9	20.3	18.7
60°	5725.9	3724.8	104.4	90.4	59.2	40.5	31.2	26.5	20.3	15.6	14.0
62.5°	6018.9	3492.6	76.4	68.6	43.6	34.3	26.5	21.8	15.6	10.9	10.9
65°	5873.9	3171.5	59.2	48.3	32.7	26.5	21.8	15.6	10.9	6.2	4.7
67.5°	5270.8	2584.0	48.3	35.8	24.9	20.3	17.1	12.5	6.2	1.6	1.6
70°	3932.1	1893.6	39.0	26.5	20.3	15.6	12.5	7.8	3.1	1.6	0.0
72.5°	2150.7	1036.4	31.2	21.8	15.6	12.5	9.4	6.2	3.1	0.0	0.0
75°	710.7	275.9	23.4	15.6	9.4	7.8	6.2	4.7	1.6	0.0	0.0
77.5°	171.4	71.7	18.7	14.0	7.8	4.7	3.1	1.6	1.6	0.0	0.0
80°	53.0	29.6	14.0	9.4	6.2	4.7	1.6	0.0	0.0	0.0	0.0
82.5°	21.8	14.0	6.2	6.2	4.7	1.6	0.0	0.0	0.0	0.0	0.0
85°	10.9	7.8	4.7	3.1	3.1	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.1	1.6	1.6	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)