

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: P483793

Luminaire Tested: **IFLD-M-SA4B-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483793
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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: 13390.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

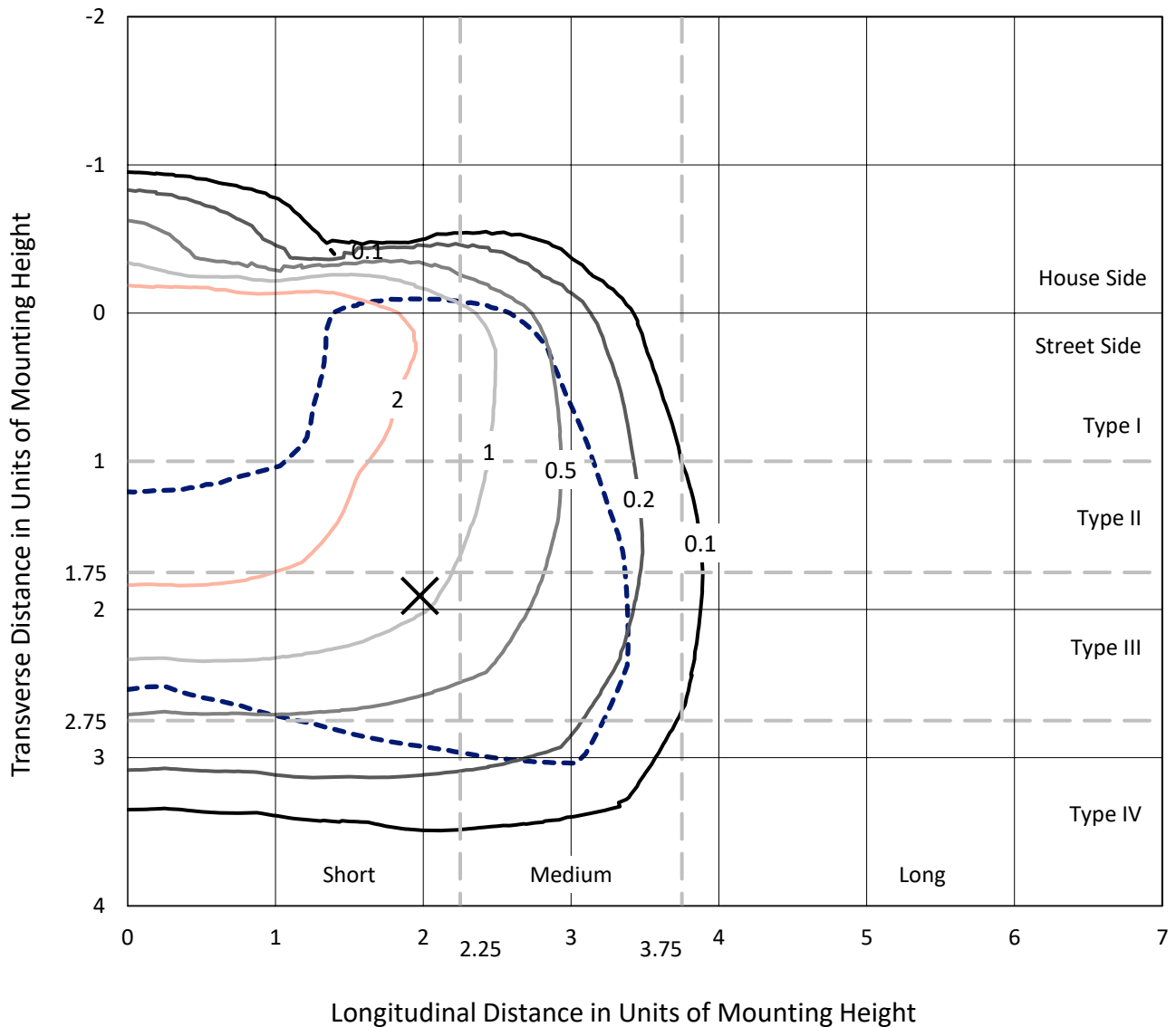
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

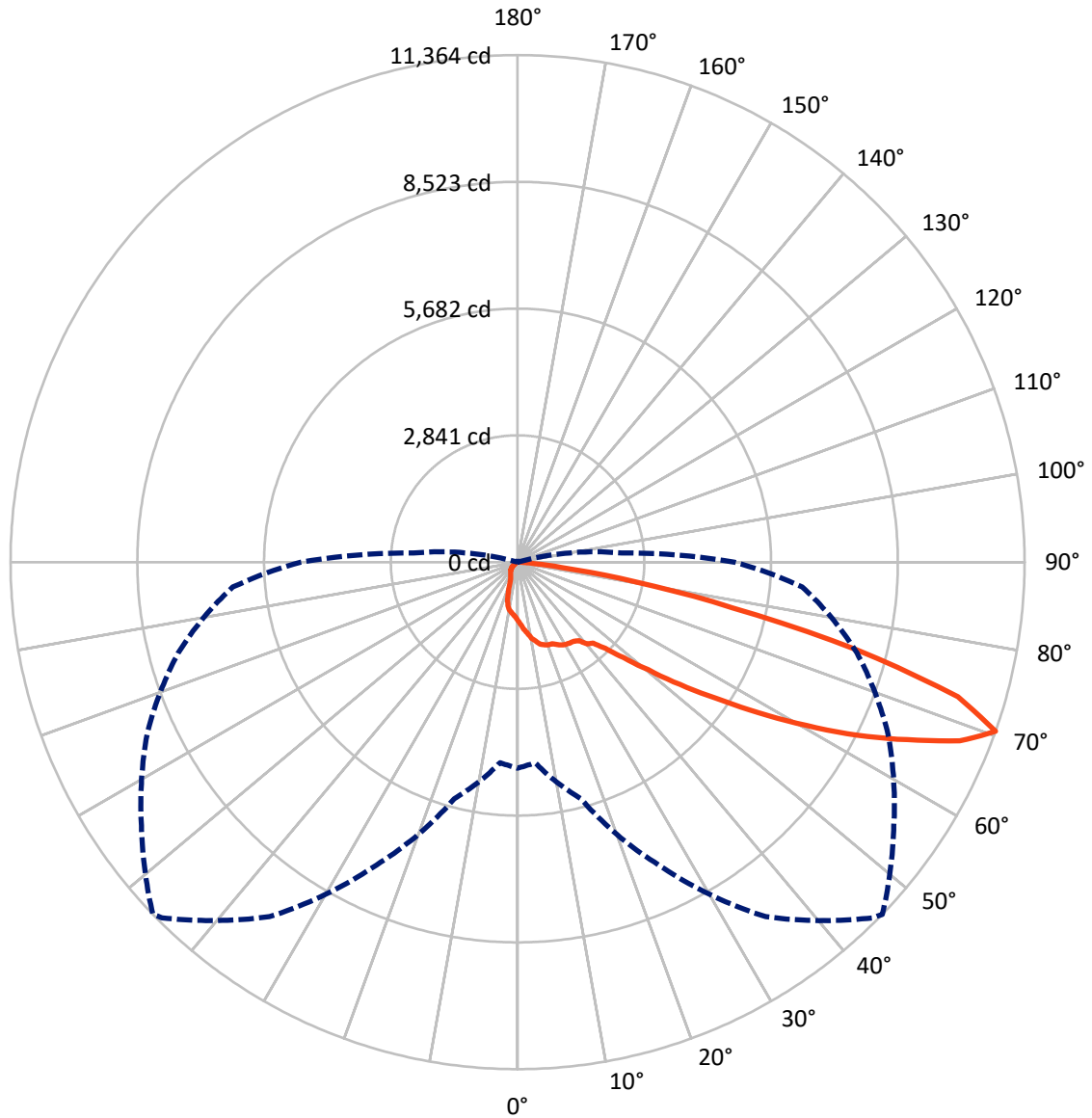
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	1332.4	0.0	1332.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	12058.0	0.0	12058.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	13390.4	0.0	13390.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.0
10°-20°	395.8	3.0
20°-30°	634.0	4.7
30°-40°	905.0	6.8
40°-50°	1562.7	11.7
50°-60°	2991.9	22.3
60°-70°	4430.5	33.1
70°-80°	2194.4	16.4
80°-90°	145.0	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°	13390.4	100.0
0°-180°	13390.4	100.0

Coefficient of Utilization



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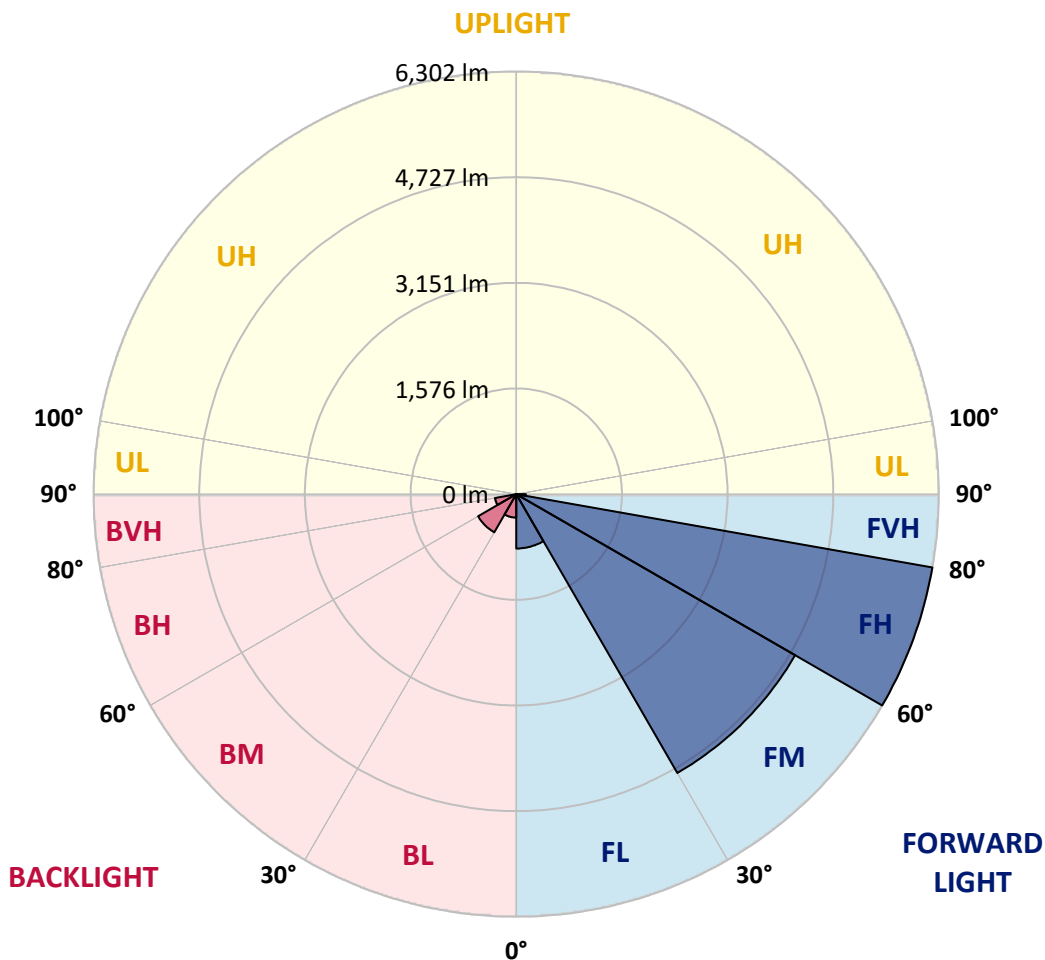
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.9	6.1			
FM (30°-60°)	4801.8	35.9			
FH (60°-80°)	6302.2	47.1			G3/7500
FVH (80°-90°)	143.2	1.1			G2/225
BL (0°-30°)	350.0	2.6	B1/500		
BM (30°-60°)	657.8	4.9	B1/1000		
BH (60°-80°)	322.7	2.4	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5
2.5°	1466.8	1457.2	1441.7	1436.0	1420.5	1412.8	1401.3	1395.5	1374.3	1353.1	1339.6
5°	1646.0	1622.9	1630.6	1607.5	1557.4	1516.9	1515.0	1470.6	1422.5	1383.9	1331.9
7.5°	1827.2	1807.9	1779.0	1746.3	1690.4	1630.6	1613.3	1570.9	1503.4	1436.0	1366.6
10°	1964.1	1950.6	1925.5	1879.3	1802.2	1734.7	1736.6	1665.3	1594.0	1516.9	1422.5
12.5°	2048.9	2054.7	2018.0	1971.8	1904.3	1819.5	1817.6	1769.4	1688.4	1607.5	1495.7
15°	2133.7	2154.9	2099.0	2045.0	1958.3	1896.6	1908.2	1850.4	1771.3	1678.8	1555.5
17.5°	2147.2	2153.0	2141.4	2062.4	1998.8	1946.7	1948.7	1910.1	1850.4	1750.1	1644.1
20°	2124.0	2120.2	2106.7	2048.9	2006.5	1975.6	1977.6	1967.9	1935.2	1854.2	1709.6
22.5°	2056.6	2056.6	2039.2	2000.7	1981.4	2010.3	1987.2	2023.8	1989.1	1940.9	1821.4
25°	2002.6	2023.8	2014.2	1989.1	1996.8	2035.4	2047.0	2081.6	2075.9	2016.1	1898.5
27.5°	2060.4	2035.4	2041.2	2012.3	2041.2	2099.0	2104.8	2129.8	2127.9	2079.7	1967.9
30°	2099.0	2122.1	2077.8	2014.2	2045.0	2143.3	2139.5	2172.2	2187.7	2129.8	2033.5
32.5°	2222.3	2203.1	2166.5	2081.6	2085.5	2141.4	2158.7	2201.1	2210.8	2176.1	2097.1
35°	2474.8	2445.9	2286.0	2158.7	2139.5	2166.5	2178.0	2260.9	2278.2	2239.7	2164.5
37.5°	2864.2	2798.7	2605.9	2324.5	2237.8	2232.0	2232.0	2341.9	2407.4	2318.7	2264.8
40°	3421.2	3328.7	3120.5	2631.0	2366.9	2390.0	2413.2	2472.9	2465.2	2407.4	2395.8
42.5°	4130.5	4059.2	3833.7	3145.6	2613.6	2498.0	2478.7	2559.7	2681.1	2658.0	2650.2
45°	4722.3	4726.1	4581.5	3851.0	3039.6	2746.6	2760.1	2821.8	3026.1	3008.7	3006.8
47.5°	5154.0	5100.0	5078.8	4531.4	3660.2	3218.8	3199.6	3242.0	3508.0	3617.8	3667.9
50°	5547.2	5510.6	5460.5	5192.6	4406.2	3810.6	3791.3	3795.1	4201.8	4356.0	4479.4
52.5°	6034.8	6081.1	5915.3	5751.5	5371.8	4579.6	4558.4	4483.2	4988.2	5200.3	5346.7
55°	6636.2	6549.5	6362.5	6447.3	6295.1	5410.4	5371.8	5283.1	5884.5	5973.2	6127.4
57.5°	6769.2	6703.7	6896.4	7197.1	7343.6	6385.6	6370.2	6210.2	6638.1	6557.2	6992.8
60°	7100.7	7118.1	7386.0	7983.5	8237.9	7511.3	7436.1	7154.7	7368.6	7384.1	7848.6
62.5°	7441.9	7401.4	8000.8	8575.2	8966.5	8577.2	8552.1	7993.1	8236.0	8039.4	8654.3
65°	7191.3	7253.0	8110.7	9072.5	9910.9	9619.9	9598.7	8800.7	8933.7	8688.9	8981.9
67.5°	6300.8	6175.5	7376.4	8845.1	10396.7	10712.8	10689.6	9681.6	9326.9	8685.1	8301.5
70°	4618.2	4510.2	5489.4	7490.1	9700.9	11271.7	11364.2	10294.5	9167.0	7875.6	6404.9
72.5°	2262.8	2264.8	3076.2	5078.8	7675.1	10273.3	10319.6	9438.7	7875.6	5805.5	3627.5
75°	668.8	676.5	1139.1	2490.3	4961.3	7802.3	7854.4	7164.3	5458.5	2999.1	1237.4
77.5°	244.8	244.8	377.8	934.8	2474.8	4924.6	4920.8	4398.4	2764.0	1015.8	289.1
80°	127.2	133.0	196.6	381.6	1071.7	2565.4	2661.8	2153.0	1050.5	427.9	84.8
82.5°	52.0	57.8	107.9	196.6	514.6	900.1	984.9	844.2	456.8	298.8	38.5
85°	15.4	17.3	52.0	109.9	202.4	225.5	250.6	283.3	287.2	231.3	17.3
87.5°	1.9	1.9	21.2	36.6	44.3	48.2	55.9	55.9	146.5	161.9	9.6
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°	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5	1314.5
2.5°	1324.2	1314.5	1299.1	1264.4	1256.7	1231.6	1229.7	1206.6	1214.3	1198.9	1193.1
5°	1314.5	1293.3	1250.9	1223.9	1196.9	1179.6	1168.0	1158.4	1156.5	1148.8	1144.9
7.5°	1331.9	1303.0	1237.4	1195.0	1148.8	1133.3	1108.3	1106.4	1092.9	1079.4	1079.4
10°	1389.7	1337.7	1266.3	1195.0	1135.3	1085.2	1027.3	984.9	969.5	934.8	938.7
12.5°	1436.0	1389.7	1285.6	1212.4	1121.8	1008.1	880.8	782.5	736.3	692.0	709.3
15°	1501.5	1434.0	1322.2	1216.2	1069.7	873.1	665.0	555.1	512.7	503.1	501.1
17.5°	1572.8	1501.5	1368.5	1206.6	963.7	674.6	489.6	426.0	433.7	445.2	443.3
20°	1651.8	1565.1	1403.2	1173.8	796.0	489.6	400.9	399.0	410.5	427.9	431.7
22.5°	1734.7	1659.5	1445.6	1075.5	593.7	393.2	385.5	385.5	393.2	414.4	410.5
25°	1827.2	1727.0	1466.8	923.2	426.0	362.4	366.2	373.9	377.8	395.1	397.1
27.5°	1898.5	1802.2	1472.6	740.1	346.9	335.4	345.0	354.7	360.4	373.9	379.7
30°	1964.1	1896.6	1441.7	551.3	318.0	312.2	316.1	329.6	341.2	352.7	352.7
32.5°	2047.0	1950.6	1370.4	391.3	300.7	291.0	289.1	294.9	308.4	321.9	321.9
35°	2131.8	2041.2	1256.7	314.2	285.3	271.8	264.1	258.3	264.1	273.7	281.4
37.5°	2255.1	2178.0	1114.1	289.1	273.7	254.4	239.0	225.5	215.9	213.9	219.7
40°	2430.5	2332.2	931.0	271.8	260.2	237.1	213.9	190.8	169.6	156.1	158.1
42.5°	2696.5	2559.7	732.4	262.1	250.6	217.8	185.0	152.3	125.3	111.8	111.8
45°	3076.2	2860.3	537.8	252.5	239.0	194.7	152.3	113.7	86.7	79.0	81.0
47.5°	3648.7	3222.7	385.5	237.1	223.6	169.6	119.5	81.0	63.6	59.8	61.7
50°	4396.5	3652.5	300.7	219.7	204.3	142.6	88.7	59.8	50.1	48.2	50.1
52.5°	5181.0	4086.2	264.1	204.3	175.4	113.7	65.5	48.2	42.4	40.5	42.4
55°	5851.7	4365.7	229.4	181.2	140.7	84.8	52.0	42.4	36.6	30.8	30.8
57.5°	6530.2	4506.4	181.2	150.3	104.1	63.6	44.3	36.6	30.8	25.1	23.1
60°	7081.5	4606.6	129.1	111.8	73.2	50.1	38.5	32.8	25.1	19.3	17.3
62.5°	7443.8	4319.4	94.4	84.8	54.0	42.4	32.8	27.0	19.3	13.5	13.5
65°	7264.6	3922.4	73.2	59.8	40.5	32.8	27.0	19.3	13.5	7.7	5.8
67.5°	6518.6	3195.7	59.8	44.3	30.8	25.1	21.2	15.4	7.7	1.9	1.9
70°	4863.0	2341.9	48.2	32.8	25.1	19.3	15.4	9.6	3.9	1.9	0.0
72.5°	2659.9	1281.8	38.5	27.0	19.3	15.4	11.6	7.7	3.9	0.0	0.0
75°	878.9	341.2	28.9	19.3	11.6	9.6	7.7	5.8	1.9	0.0	0.0
77.5°	212.0	88.7	23.1	17.3	9.6	5.8	3.9	1.9	1.9	0.0	0.0
80°	65.5	36.6	17.3	11.6	7.7	5.8	1.9	0.0	0.0	0.0	0.0
82.5°	27.0	17.3	7.7	7.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	13.5	9.6	5.8	3.9	3.9	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	3.9	1.9	1.9	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)