

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: P483736

Luminaire Tested: **IFLD-S-SA3D-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483736
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

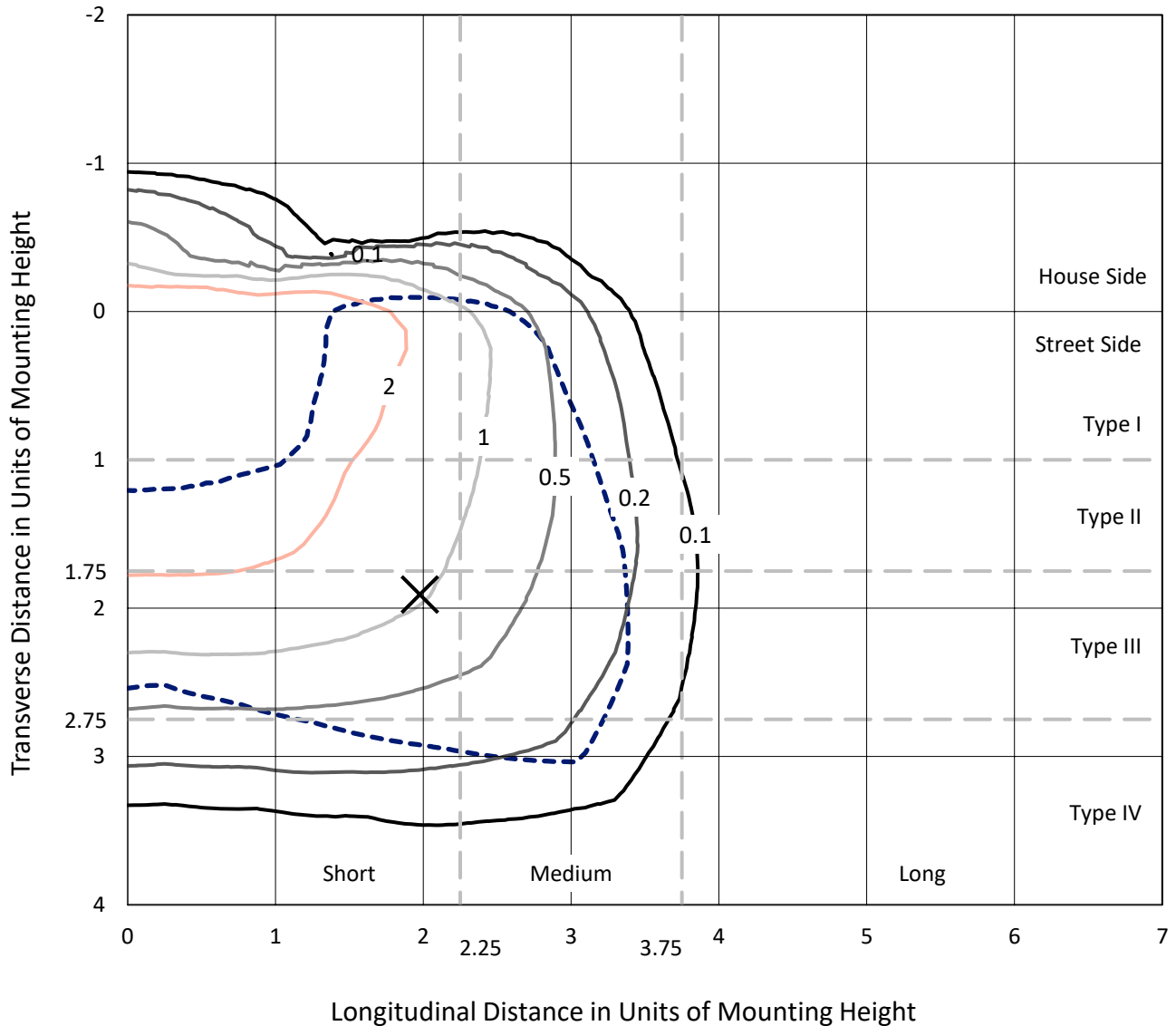
Lumens per Lamp: N/A
Luminaire Lumens: 12641.3 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
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

REPORT NUMBER: P483736
 CATALOG NUMBER: IFLD-S-SA3D-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

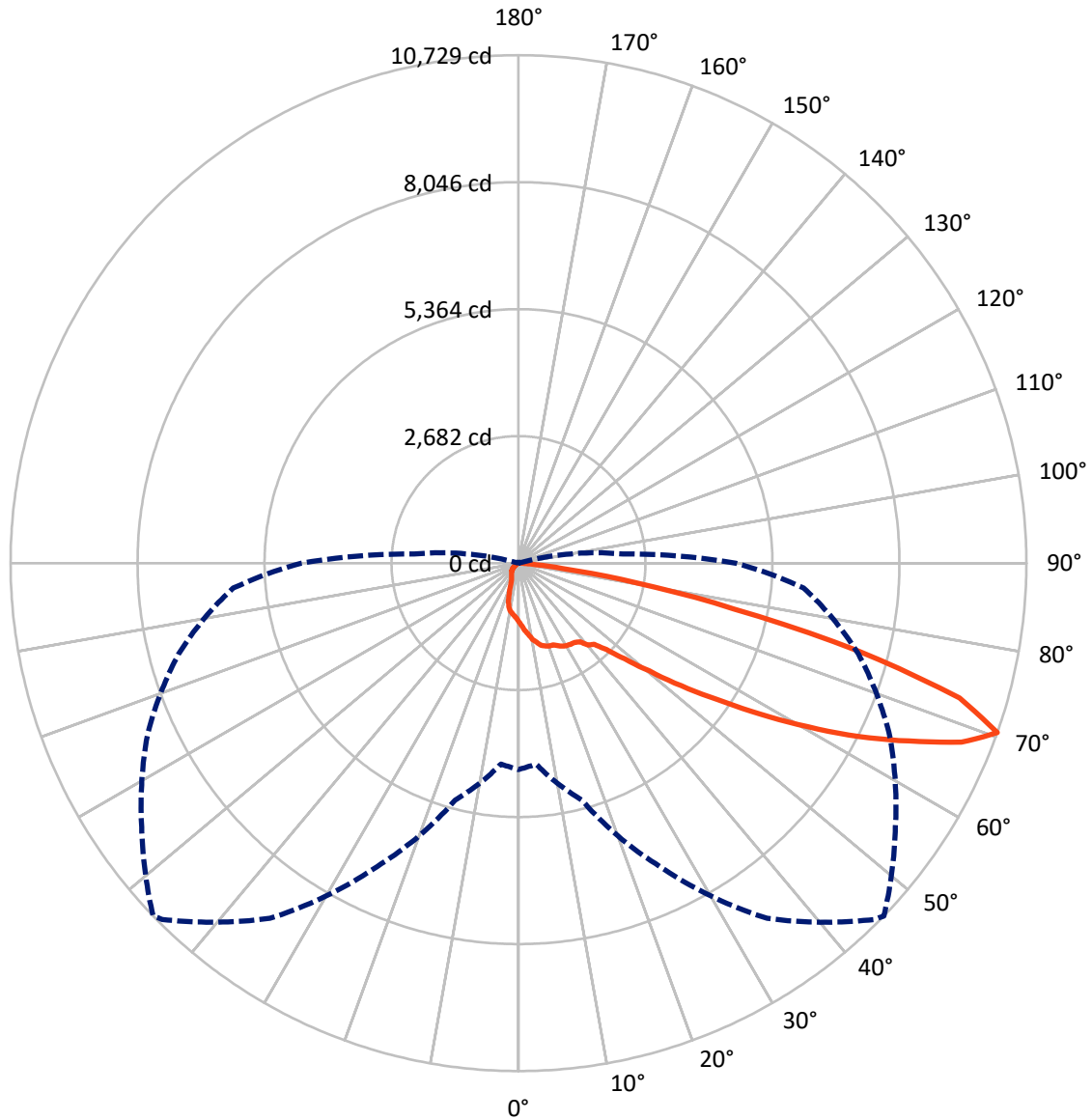
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P483736
CATALOG NUMBER: IFLD-S-SA3D-827-U-T4W-HSS

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	1257.8	0.0	1257.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	11383.5	0.0	11383.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	12641.3	0.0	12641.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	1.0
10°-20°	373.7	3.0
20°-30°	598.6	4.7
30°-40°	854.4	6.8
40°-50°	1475.3	11.7
50°-60°	2824.5	22.3
60°-70°	4182.7	33.1
70°-80°	2071.6	16.4
80°-90°	136.9	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°	12641.3	100.0
0°-180°	12641.3	100.0

Coefficient of Utilization



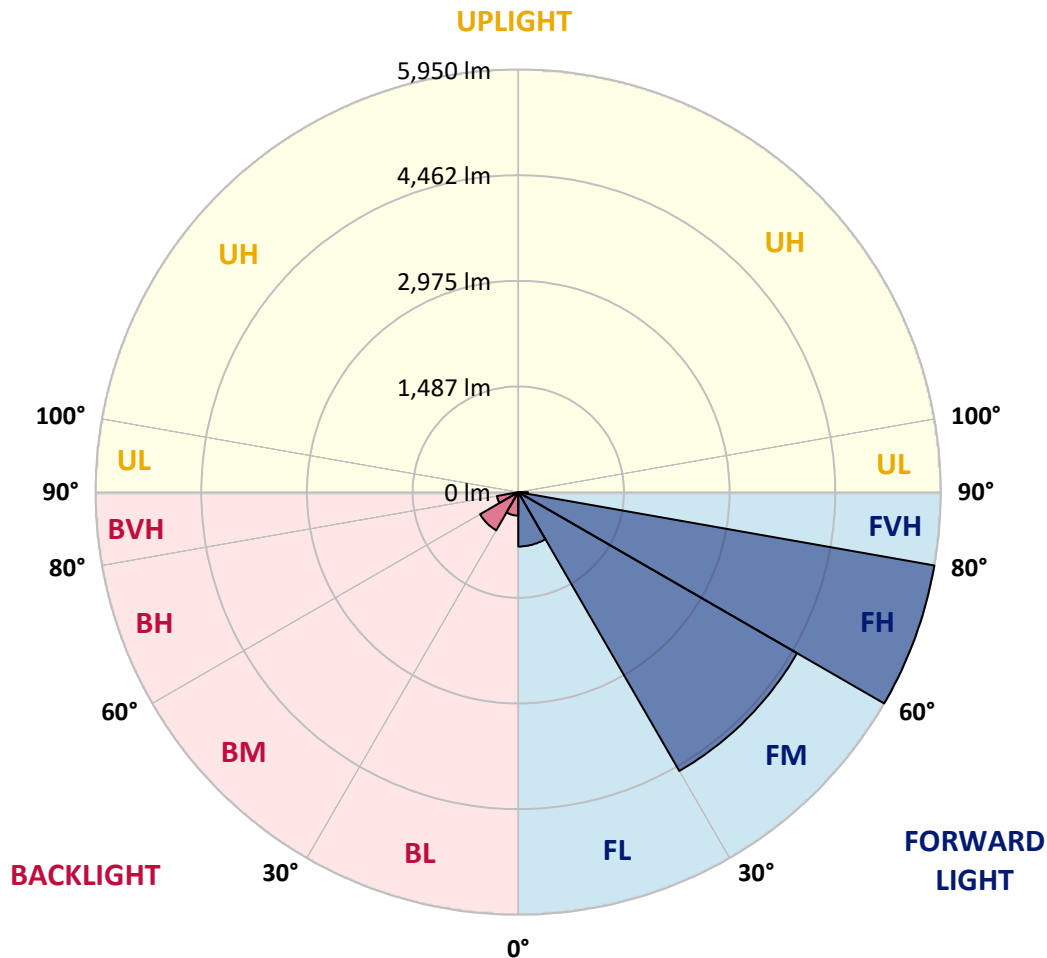
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.5	6.1			
FM (30°-60°)	4533.1	35.9			
FH (60°-80°)	5949.7	47.1			G3/7500
FVH (80°-90°)	135.2	1.1			G2/225
BL (0°-30°)	330.5	2.6	B1/500		
BM (30°-60°)	621.0	4.9	B1/1000		
BH (60°-80°)	304.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.7	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





REPORT NUMBER: P483736

CATALOG NUMBER: IFLD-S-SA3D-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0
2.5°	1384.7	1375.6	1361.1	1355.6	1341.1	1333.8	1322.9	1317.4	1297.4	1277.4	1264.6
5°	1554.0	1532.1	1539.4	1517.6	1470.3	1432.0	1430.2	1388.4	1342.9	1306.5	1257.4
7.5°	1725.0	1706.8	1679.5	1648.6	1595.8	1539.4	1523.0	1483.0	1419.3	1355.6	1290.1
10°	1854.2	1841.5	1817.8	1774.1	1701.3	1637.7	1639.5	1572.2	1504.8	1432.0	1342.9
12.5°	1934.3	1939.7	1905.1	1861.5	1797.8	1717.7	1715.9	1670.4	1594.0	1517.6	1412.0
15°	2014.3	2034.3	1981.6	1930.6	1848.7	1790.5	1801.4	1746.8	1672.2	1584.9	1468.4
17.5°	2027.1	2032.5	2021.6	1947.0	1887.0	1837.8	1839.6	1803.2	1746.8	1652.2	1552.1
20°	2005.2	2001.6	1988.9	1934.3	1894.2	1865.1	1866.9	1857.8	1826.9	1750.5	1614.0
22.5°	1941.5	1941.5	1925.2	1888.8	1870.6	1897.9	1876.0	1910.6	1877.9	1832.4	1719.5
25°	1890.6	1910.6	1901.5	1877.9	1885.1	1921.5	1932.4	1965.2	1959.7	1903.3	1792.3
27.5°	1945.2	1921.5	1927.0	1899.7	1927.0	1981.6	1987.0	2010.7	2008.9	1963.4	1857.8
30°	1981.6	2003.4	1961.6	1901.5	1930.6	2023.4	2019.8	2050.7	2065.3	2010.7	1919.7
32.5°	2098.0	2079.8	2045.3	1965.2	1968.8	2021.6	2038.0	2078.0	2087.1	2054.4	1979.8
35°	2336.4	2309.1	2158.1	2038.0	2019.8	2045.3	2056.2	2134.4	2150.8	2114.4	2043.4
37.5°	2704.0	2642.1	2460.1	2194.5	2112.6	2107.1	2107.1	2210.8	2272.7	2189.0	2138.1
40°	3229.8	3142.5	2946.0	2483.8	2234.5	2256.3	2278.2	2334.6	2327.3	2272.7	2261.8
42.5°	3899.5	3832.1	3619.2	2969.6	2467.4	2358.2	2340.0	2416.5	2531.1	2509.3	2502.0
45°	4458.1	4461.7	4325.2	3635.6	2869.5	2593.0	2605.7	2663.9	2856.8	2840.4	2838.6
47.5°	4865.7	4814.7	4794.7	4277.9	3455.5	3038.8	3020.6	3060.6	3311.7	3415.4	3462.7
50°	5236.9	5202.3	5155.0	4902.1	4159.7	3597.4	3579.2	3582.8	3966.8	4112.4	4228.8
52.5°	5697.2	5740.9	5584.4	5429.8	5071.3	4323.4	4303.4	4232.4	4709.2	4909.3	5047.6
55°	6265.0	6183.1	6006.6	6086.6	5942.9	5107.7	5071.3	4987.6	5555.3	5639.0	5784.6
57.5°	6390.5	6328.7	6510.6	6794.5	6932.8	6028.4	6013.9	5862.8	6266.8	6190.4	6601.6
60°	6703.5	6719.9	6972.8	7536.9	7777.1	7091.1	7020.1	6754.4	6956.4	6971.0	7409.5
62.5°	7025.6	6987.4	7553.3	8095.5	8464.9	8097.3	8073.7	7546.0	7775.3	7589.7	8170.1
65°	6789.0	6847.3	7657.0	8565.0	9356.5	9081.8	9061.7	8308.4	8434.0	8202.9	8479.5
67.5°	5948.4	5830.1	6963.7	8350.3	9815.1	10113.5	10091.6	9140.0	8805.2	8199.2	7837.1
70°	4359.8	4257.9	5182.3	7071.1	9158.2	10641.2	10728.5	9718.6	8654.1	7435.0	6046.6
72.5°	2136.2	2138.1	2904.1	4794.7	7245.7	9698.6	9742.3	8910.7	7435.0	5480.7	3424.5
75°	631.4	638.7	1075.4	2351.0	4683.7	7365.8	7415.0	6763.5	5153.2	2831.3	1168.2
77.5°	231.1	231.1	356.6	882.5	2336.4	4649.1	4645.5	4152.4	2609.3	958.9	272.9
80°	120.1	125.6	185.6	360.3	1011.7	2421.9	2512.9	2032.5	991.7	404.0	80.1
82.5°	49.1	54.6	101.9	185.6	485.8	849.8	929.8	797.0	431.3	282.0	36.4
85°	14.6	16.4	49.1	103.7	191.1	212.9	236.6	267.5	271.1	218.4	16.4
87.5°	1.8	1.8	20.0	34.6	41.9	45.5	52.8	52.8	138.3	152.8	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483736

CATALOG NUMBER: IFLD-S-SA3D-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0	1241.0
2.5°	1250.1	1241.0	1226.4	1193.7	1186.4	1162.7	1160.9	1139.1	1146.4	1131.8	1126.3
5°	1241.0	1221.0	1180.9	1155.5	1130.0	1113.6	1102.7	1093.6	1091.8	1084.5	1080.9
7.5°	1257.4	1230.1	1168.2	1128.2	1084.5	1069.9	1046.3	1044.5	1031.7	1019.0	1019.0
10°	1311.9	1262.8	1195.5	1128.2	1071.8	1024.4	969.9	929.8	915.3	882.5	886.2
12.5°	1355.6	1311.9	1213.7	1144.5	1059.0	951.7	831.6	738.8	695.1	653.2	669.6
15°	1417.5	1353.8	1248.3	1148.2	1009.9	824.3	627.8	524.1	484.0	474.9	473.1
17.5°	1484.8	1417.5	1291.9	1139.1	909.8	636.9	462.2	402.1	409.4	420.3	418.5
20°	1559.4	1477.5	1324.7	1108.2	751.5	462.2	378.5	376.7	387.6	404.0	407.6
22.5°	1637.7	1566.7	1364.7	1015.4	560.4	371.2	363.9	363.9	371.2	391.2	387.6
25°	1725.0	1630.4	1384.7	871.6	402.1	342.1	345.7	353.0	356.6	373.0	374.8
27.5°	1792.3	1701.3	1390.2	698.7	327.5	316.6	325.7	334.8	340.3	353.0	358.5
30°	1854.2	1790.5	1361.1	520.4	300.2	294.8	298.4	311.2	322.1	333.0	333.0
32.5°	1932.4	1841.5	1293.8	369.4	283.9	274.8	272.9	278.4	291.1	303.9	303.9
35°	2012.5	1927.0	1186.4	296.6	269.3	256.6	249.3	243.8	249.3	258.4	265.7
37.5°	2129.0	2056.2	1051.7	272.9	258.4	240.2	225.6	212.9	203.8	202.0	207.4
40°	2294.5	2201.7	878.9	256.6	245.6	223.8	202.0	180.1	160.1	147.4	149.2
42.5°	2545.7	2416.5	691.5	247.5	236.6	205.6	174.7	143.8	118.3	105.5	105.5
45°	2904.1	2700.3	507.7	238.4	225.6	183.8	143.8	107.4	81.9	74.6	76.4
47.5°	3444.6	3042.4	363.9	223.8	211.1	160.1	112.8	76.4	60.0	56.4	58.2
50°	4150.6	3448.2	283.9	207.4	192.9	134.7	83.7	56.4	47.3	45.5	47.3
52.5°	4891.2	3857.6	249.3	192.9	165.6	107.4	61.9	45.5	40.0	38.2	40.0
55°	5524.4	4121.5	216.5	171.0	132.8	80.1	49.1	40.0	34.6	29.1	29.1
57.5°	6164.9	4254.3	171.0	141.9	98.3	60.0	41.9	34.6	29.1	23.7	21.8
60°	6685.3	4348.9	121.9	105.5	69.1	47.3	36.4	30.9	23.7	18.2	16.4
62.5°	7027.4	4077.8	89.2	80.1	50.9	40.0	30.9	25.5	18.2	12.7	12.7
65°	6858.2	3702.9	69.1	56.4	38.2	30.9	25.5	18.2	12.7	7.3	5.5
67.5°	6154.0	3016.9	56.4	41.9	29.1	23.7	20.0	14.6	7.3	1.8	1.8
70°	4590.9	2210.8	45.5	30.9	23.7	18.2	14.6	9.1	3.6	1.8	0.0
72.5°	2511.1	1210.1	36.4	25.5	18.2	14.6	10.9	7.3	3.6	0.0	0.0
75°	829.7	322.1	27.3	18.2	10.9	9.1	7.3	5.5	1.8	0.0	0.0
77.5°	200.2	83.7	21.8	16.4	9.1	5.5	3.6	1.8	1.8	0.0	0.0
80°	61.9	34.6	16.4	10.9	7.3	5.5	1.8	0.0	0.0	0.0	0.0
82.5°	25.5	16.4	7.3	7.3	5.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.7	9.1	5.5	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	3.6	1.8	1.8	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)