

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: P482622

Luminaire Tested: **IFLD-M-SA4A-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482622
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-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

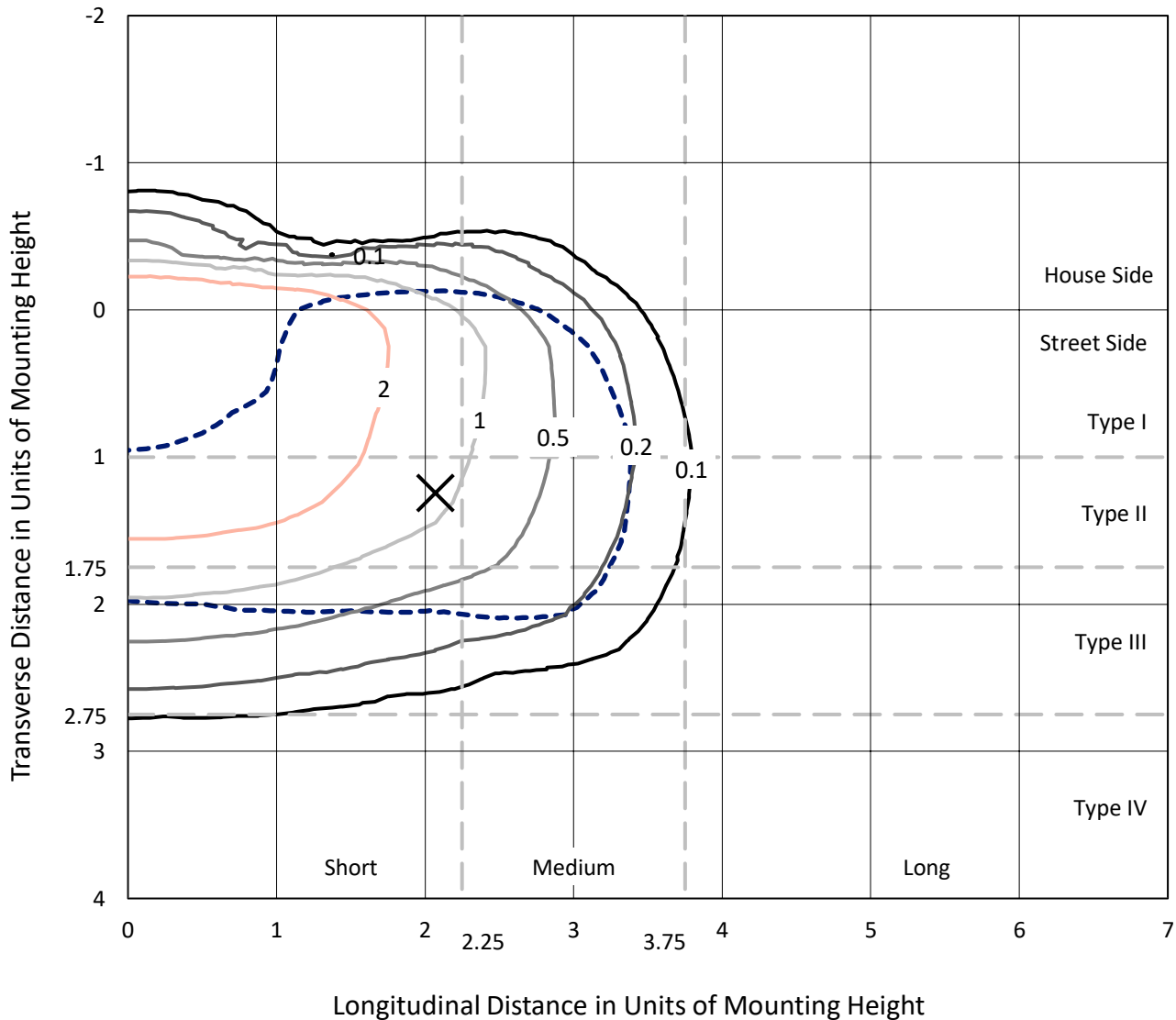
Lumens per Lamp: N/A
Luminaire Lumens: 10888.6 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P482622
 CATALOG NUMBER: IFLD-M-SA4A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

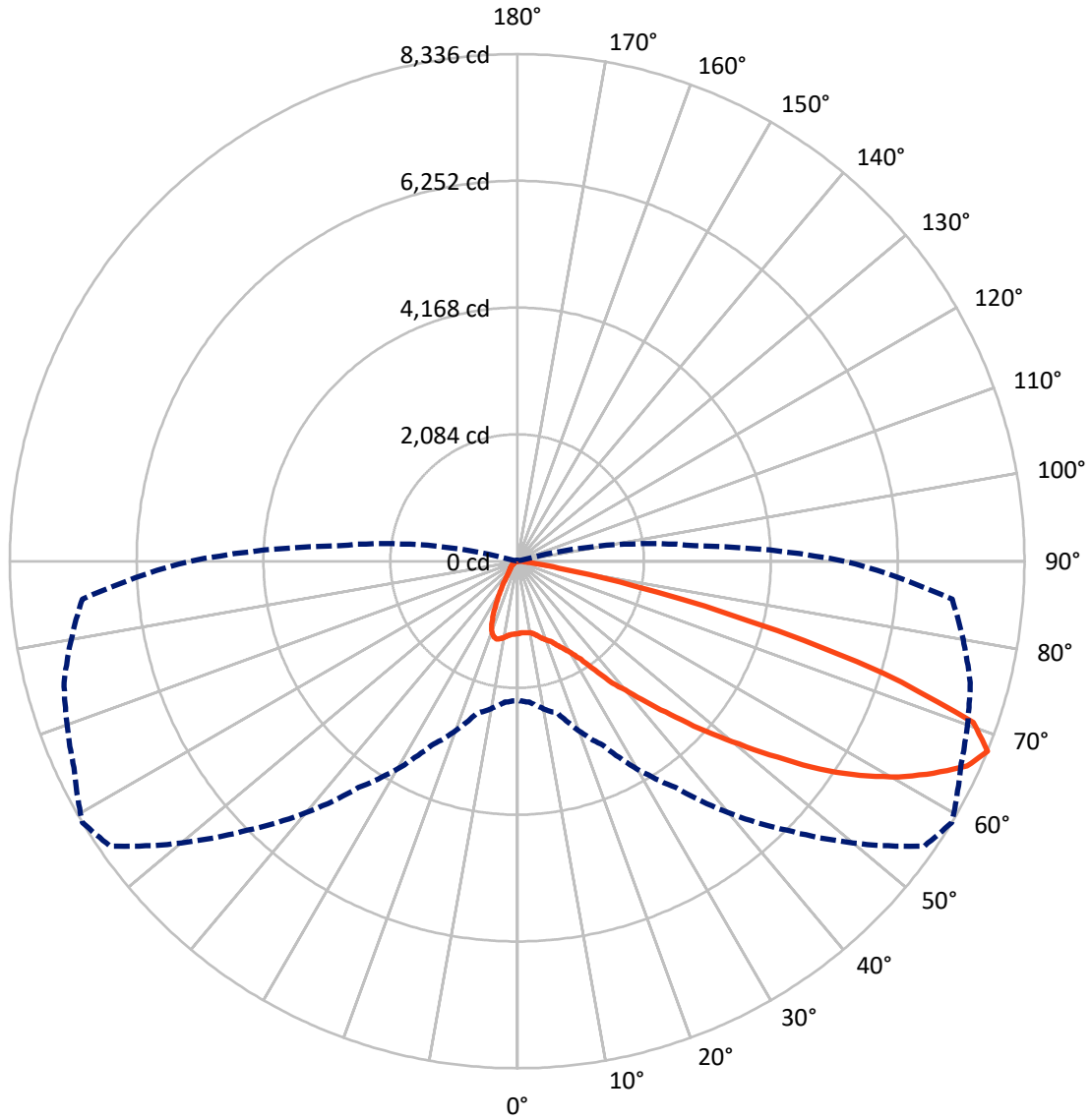
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P482622
CATALOG NUMBER: IFLD-M-SA4A-830-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1279.0	0.0	1279.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	9609.6	0.0	9609.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	10888.6	0.0	10888.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	1.0
10°-20°	327.7	3.0
20°-30°	572.7	5.3
30°-40°	1008.4	9.3
40°-50°	1782.5	16.4
50°-60°	2822.3	25.9
60°-70°	3130.7	28.8
70°-80°	1086.3	10.0
80°-90°	44.7	0.4
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°	10888.6	100.0
0°-180°	10888.6	100.0

Coefficient of Utilization

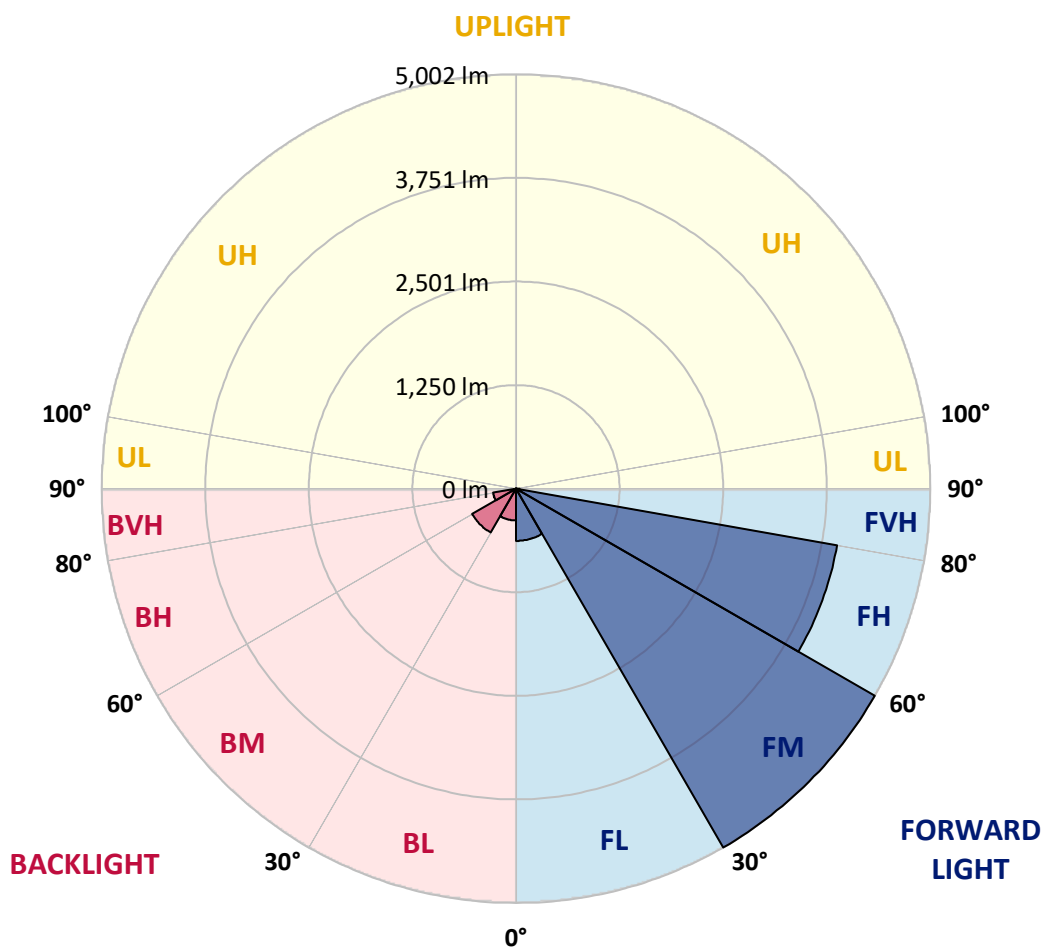


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.5	5.8			
FM (30°-60°)	5001.5	45.9			
FH (60°-80°)	3935.6	36.1			G2/5000
FVH (80°-90°)	41.8	0.4			G1/100
BL (0°-30°)	383.3	3.5	B1/500		
BM (30°-60°)	611.5	5.6	B1/1000		
BH (60°-80°)	281.3	2.6	B1/500		G1/500
BVH (80°-90°)	2.9	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-G2
 Type III Short





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CATALOG NUMBER: IFLD-M-SA4A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3
2.5°	1159.7	1143.1	1158.2	1159.7	1161.2	1174.7	1189.8	1179.2	1177.7	1189.8	1200.3
5°	1113.1	1105.5	1123.6	1132.6	1147.7	1159.7	1183.8	1185.3	1186.8	1200.3	1218.3
7.5°	1093.5	1075.5	1096.5	1107.0	1117.6	1146.2	1174.7	1189.8	1210.8	1227.4	1245.4
10°	1054.4	1067.9	1074.0	1092.0	1122.1	1155.2	1189.8	1197.3	1243.9	1257.5	1301.1
12.5°	1067.9	1077.0	1089.0	1093.5	1126.6	1176.2	1222.9	1225.9	1274.0	1332.7	1355.2
15°	1102.5	1096.5	1101.0	1107.0	1146.2	1186.8	1262.0	1275.5	1320.6	1386.8	1442.5
17.5°	1176.2	1165.7	1158.2	1156.7	1165.7	1203.3	1292.1	1332.7	1374.8	1465.0	1493.6
20°	1361.2	1352.2	1322.1	1243.9	1216.8	1231.9	1328.2	1385.3	1444.0	1544.7	1591.4
22.5°	1642.5	1651.5	1580.8	1471.0	1358.2	1299.6	1385.3	1434.9	1528.2	1656.1	1698.2
25°	1974.9	1956.9	1871.1	1743.3	1565.8	1427.4	1477.1	1532.7	1647.0	1752.3	1768.9
27.5°	2235.1	2214.1	2147.9	1993.0	1839.6	1615.4	1597.4	1632.0	1767.4	1862.1	1844.1
30°	2492.4	2499.9	2454.7	2271.2	2081.7	1845.6	1731.3	1746.3	1850.1	1971.9	1931.3
32.5°	2820.3	2802.2	2776.6	2615.7	2391.6	2138.9	1943.3	1919.3	1964.4	2125.3	2077.2
35°	3125.6	3115.1	3080.5	2918.0	2722.5	2447.2	2256.2	2202.1	2191.5	2370.5	2286.3
37.5°	3391.8	3373.8	3321.1	3217.3	3027.8	2796.2	2587.1	2539.0	2537.5	2660.8	2498.4
40°	3615.9	3629.5	3623.5	3509.1	3405.4	3220.4	2900.0	2823.3	2817.2	2883.4	2788.7
42.5°	3906.2	3937.8	3921.3	3898.7	3773.9	3701.7	3339.2	3221.9	3169.2	3304.6	3218.8
45°	4345.4	4357.5	4368.0	4312.4	4187.5	4202.6	3793.4	3653.5	3640.0	3841.6	3649.0
47.5°	4756.1	4724.5	4798.2	4801.2	4795.2	4726.0	4283.8	4180.0	4198.0	4351.5	4152.9
50°	4858.4	4939.6	5142.6	5180.2	5278.0	5341.2	4828.3	4724.5	4754.6	4929.0	4701.9
52.5°	4938.1	5061.4	5264.5	5539.7	5803.0	5953.4	5437.4	5353.2	5351.7	5458.5	5145.6
55°	5078.0	5153.2	5329.1	5708.2	6209.1	6455.7	6171.5	6036.1	5914.3	5989.5	5605.9
57.5°	5064.4	5093.0	5366.8	5834.5	6531.0	6979.2	6774.6	6645.3	6488.8	6445.2	6135.4
60°	4826.8	4894.5	5201.3	5748.8	6729.5	7386.8	7337.2	7204.8	6935.6	6833.3	6541.5
62.5°	4356.0	4446.2	4686.9	5448.0	6440.7	7407.9	7725.2	7675.6	7374.8	7191.3	7070.9
65°	3530.2	3572.3	3849.1	4683.9	5787.9	7084.5	8184.0	8122.3	7845.6	7571.8	7343.2
67.5°	2286.3	2326.9	2593.1	3343.7	4545.5	6249.7	8165.9	8335.9	8036.6	7707.2	7173.2
70°	1080.0	1069.4	1317.6	1857.6	2912.0	4772.6	7613.9	7949.4	7695.2	6986.7	5957.9
72.5°	329.4	358.0	547.5	822.8	1495.1	2976.7	5968.4	6282.8	6203.1	5581.8	3976.9
75°	145.9	157.9	215.1	336.9	606.2	1221.4	3686.6	3966.4	3931.8	3292.6	1815.5
77.5°	93.3	102.3	135.4	192.5	275.3	388.1	1698.2	1970.4	1910.3	1156.7	475.3
80°	66.2	70.7	96.3	132.4	173.0	159.4	585.1	694.9	666.3	314.4	127.9
82.5°	36.1	39.1	70.7	97.8	115.8	81.2	164.0	204.6	213.6	139.9	61.7
85°	13.5	16.5	43.6	69.2	60.2	37.6	48.1	58.7	76.7	76.7	28.6
87.5°	0.0	1.5	18.0	30.1	15.0	10.5	13.5	16.5	21.1	36.1	10.5
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°	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3	1194.3
2.5°	1207.8	1197.3	1201.8	1209.3	1192.8	1201.8	1183.8	1197.3	1201.8	1183.8	1192.8
5°	1222.9	1233.4	1227.4	1215.3	1204.8	1207.8	1203.3	1192.8	1201.8	1204.8	1198.8
7.5°	1266.5	1254.4	1257.5	1243.9	1222.9	1221.4	1192.8	1185.3	1188.3	1191.3	1180.7
10°	1307.1	1314.6	1299.6	1289.0	1254.4	1231.9	1192.8	1150.7	1146.2	1128.1	1143.1
12.5°	1379.3	1361.2	1355.2	1320.6	1286.0	1210.8	1126.6	1061.9	1007.8	988.2	968.7
15°	1439.5	1436.4	1425.9	1373.3	1293.6	1156.7	997.2	846.8	743.0	678.4	669.3
17.5°	1522.2	1508.6	1489.1	1406.4	1237.9	1015.3	743.0	553.5	449.7	409.1	394.1
20°	1585.4	1574.8	1547.8	1398.8	1137.1	756.6	460.3	352.0	326.4	318.9	320.4
22.5°	1677.1	1644.0	1592.9	1361.2	953.6	503.9	330.9	314.4	309.9	303.8	305.3
25°	1756.8	1726.7	1620.0	1296.6	679.9	333.9	306.8	297.8	290.3	282.8	281.3
27.5°	1827.5	1789.9	1648.5	1164.2	425.7	287.3	284.3	273.8	258.7	246.7	242.2
30°	1896.7	1853.1	1656.1	916.0	287.3	260.2	252.7	236.1	216.6	200.0	197.0
32.5°	2012.5	1959.9	1645.5	654.3	248.2	231.6	215.1	195.5	167.0	153.4	150.4
35°	2193.0	2113.3	1632.0	385.1	222.6	204.6	179.0	153.4	132.4	118.8	115.8
37.5°	2400.6	2262.2	1592.9	257.2	204.6	180.5	147.4	121.8	103.8	93.3	90.2
40°	2708.9	2480.3	1442.5	210.6	182.0	153.4	118.8	96.3	82.7	75.2	72.2
42.5°	3048.9	2730.0	1210.8	189.5	160.9	130.9	94.8	78.2	67.7	60.2	60.2
45°	3456.5	2990.2	934.1	173.0	142.9	108.3	78.2	63.2	54.1	48.1	45.1
47.5°	3910.7	3226.4	630.2	156.4	120.3	88.7	64.7	48.1	39.1	34.6	34.6
50°	4316.9	3435.4	401.6	136.9	105.3	73.7	52.6	39.1	31.6	25.6	24.1
52.5°	4685.4	3594.9	276.8	120.3	90.2	60.2	43.6	31.6	24.1	19.6	19.6
55°	5062.9	3676.1	204.6	103.8	78.2	51.1	36.1	28.6	21.1	16.5	15.0
57.5°	5372.8	3710.7	156.4	90.2	66.2	40.6	31.6	24.1	18.0	13.5	12.0
60°	5637.5	3694.2	121.8	75.2	52.6	34.6	27.1	19.6	15.0	10.5	9.0
62.5°	5792.4	3594.9	96.3	64.7	42.1	30.1	22.6	16.5	10.5	7.5	6.0
65°	5795.4	3384.3	75.2	48.1	31.6	25.6	19.6	13.5	7.5	3.0	1.5
67.5°	5380.3	2928.5	60.2	37.6	25.6	19.6	15.0	10.5	3.0	0.0	0.0
70°	4208.6	2215.6	49.6	30.1	21.1	16.5	10.5	6.0	1.5	0.0	0.0
72.5°	2681.9	1326.6	40.6	24.1	18.0	12.0	7.5	4.5	0.0	0.0	0.0
75°	1122.1	409.1	31.6	21.1	13.5	9.0	6.0	1.5	0.0	0.0	0.0
77.5°	288.8	129.4	25.6	18.0	13.5	7.5	4.5	1.5	0.0	0.0	0.0
80°	85.7	48.1	21.1	15.0	10.5	6.0	3.0	1.5	0.0	0.0	0.0
82.5°	39.1	28.6	18.0	13.5	9.0	6.0	3.0	0.0	0.0	0.0	0.0
85°	15.0	9.0	9.0	7.5	7.5	4.5	1.5	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	3.0	3.0	1.5	1.5	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)