

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: McGRAW-EDISON

Report Number: P594293

Luminaire Tested: **ISC-PA1E-730-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594293  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1E-730-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9639 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

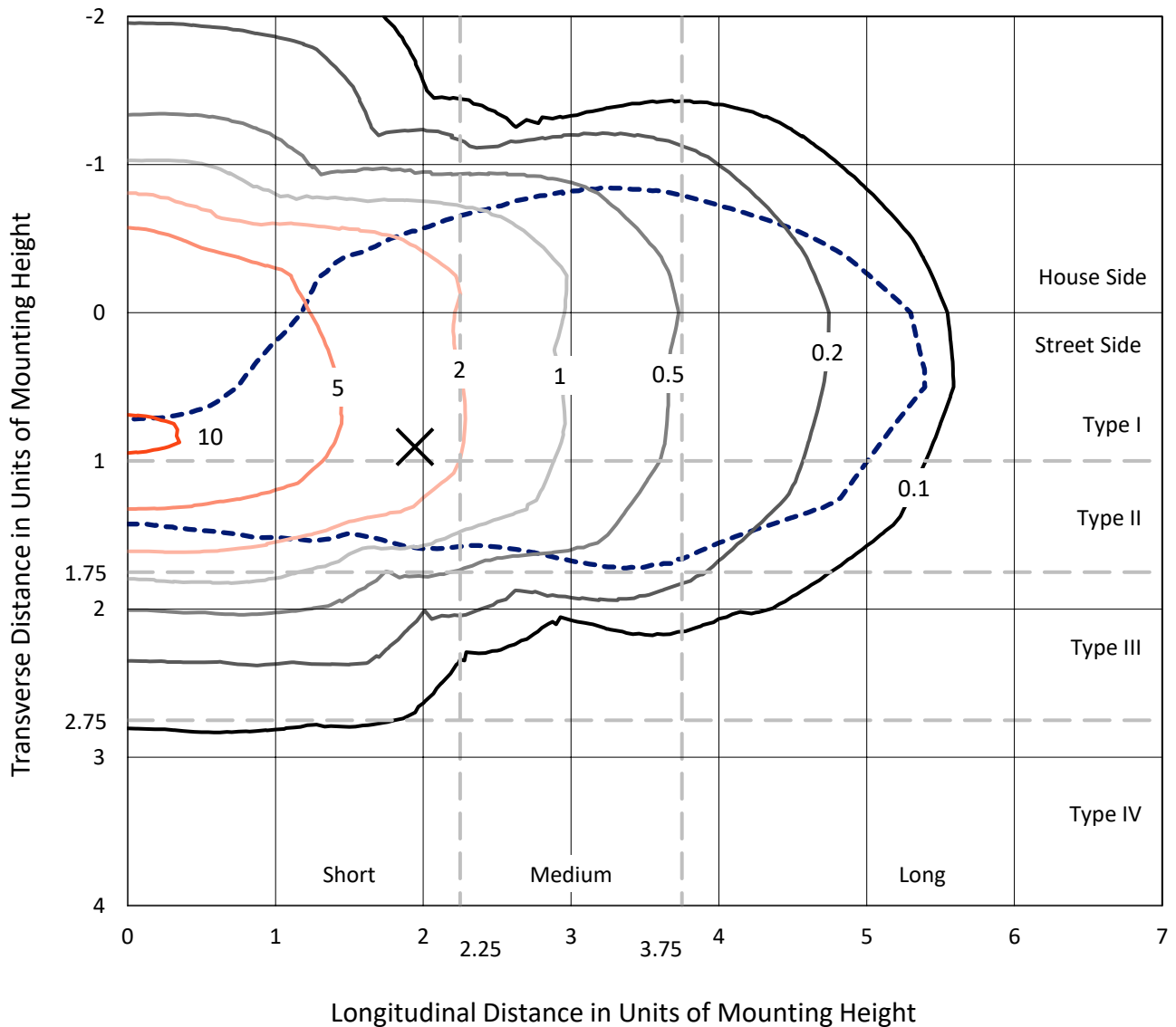
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

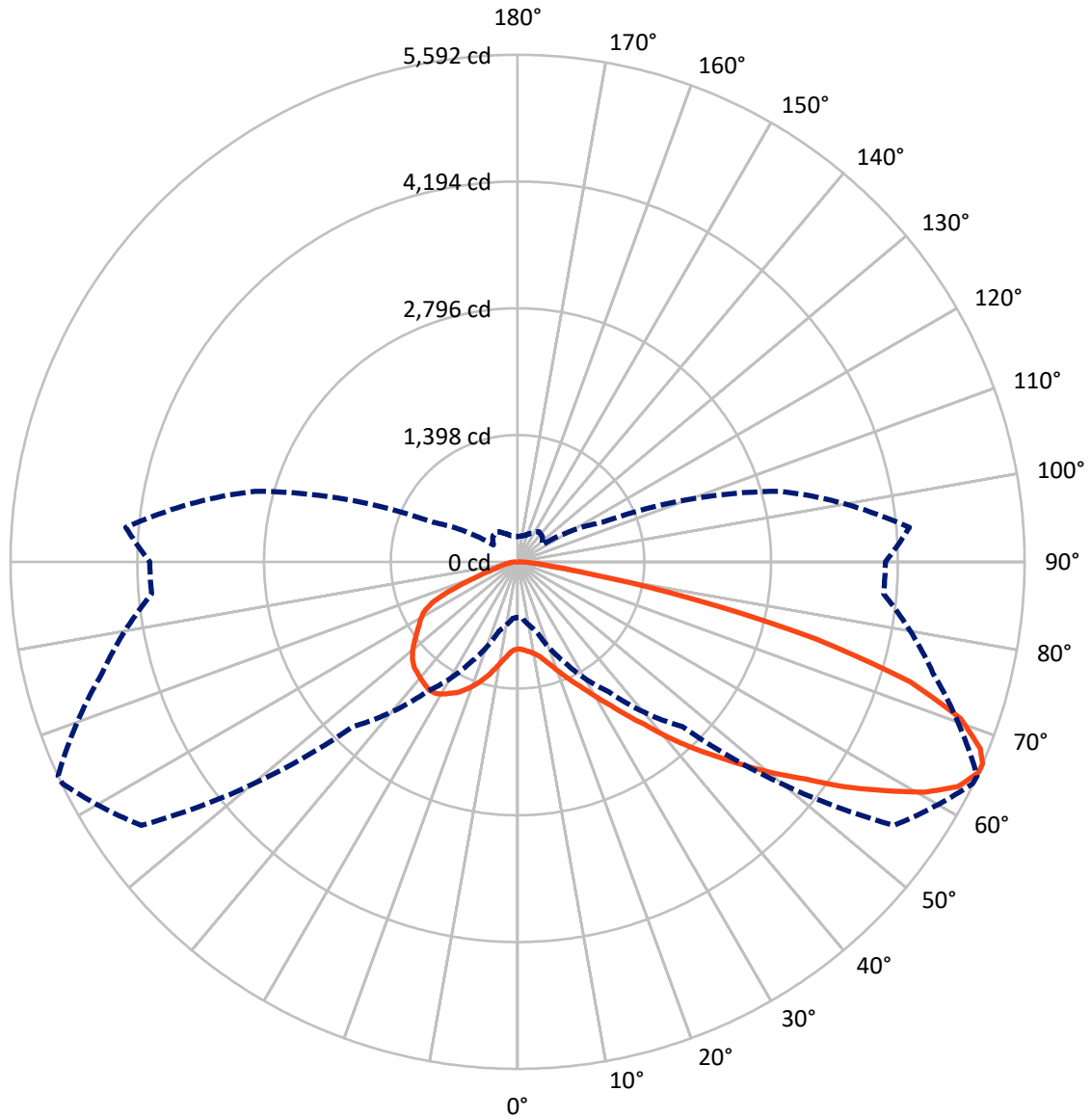
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2926.8	0.0	2926.8
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	6712.2	0.0	6712.2
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	9639.0	0.0	9639.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	1.0
10°-20°	341.6	3.5
20°-30°	669.0	6.9
30°-40°	1093.2	11.3
40°-50°	1735.2	18.0
50°-60°	2231.8	23.2
60°-70°	2012.6	20.9
70°-80°	1248.3	13.0
80°-90°	209.2	2.2
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°	9639.0	100.0
0°-180°	9639.0	100.0

**Coefficient of Utilization**



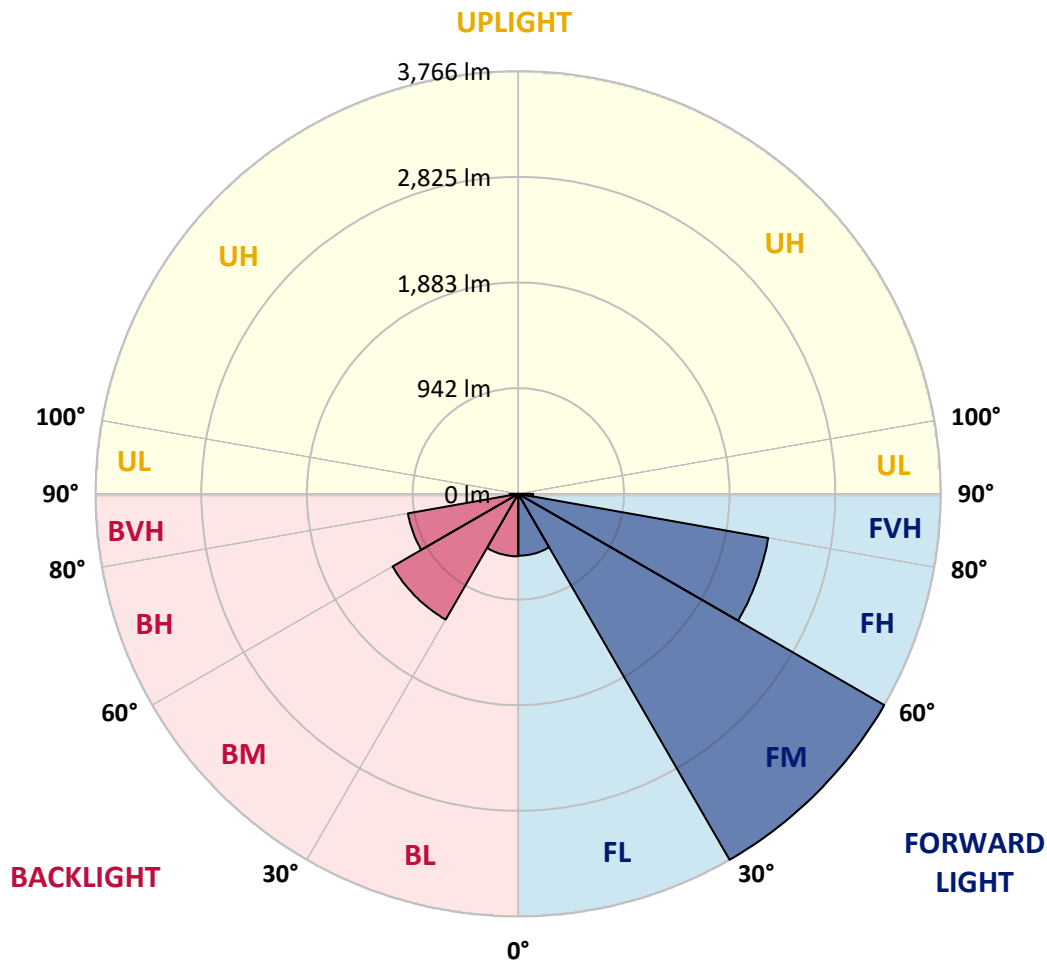
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.2	5.7			
FM (30°-60°)	3766.4	39.1			
FH (60°-80°)	2262.3	23.5			G2/5000
FVH (80°-90°)	132.3	1.4			G2/225
BL (0°-30°)	557.4	5.8	B2/1000		
BM (30°-60°)	1293.9	13.4	B2/2500		
BH (60°-80°)	998.6	10.4	B2/1000		G2/1000
BVH (80°-90°)	76.9	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	960.8	960.8	960.8	960.8	960.8	960.8	960.8	960.8	960.8	960.8	960.8
2.5°	963.1	965.5	967.8	963.1	967.8	970.1	965.5	965.5	967.8	963.1	963.1
5°	956.1	958.4	963.1	965.5	974.8	979.5	981.8	981.8	984.2	981.8	984.2
7.5°	937.4	937.4	946.8	951.4	965.5	981.8	991.2	1005.2	1005.2	1007.5	1014.5
10°	956.1	956.1	963.1	970.1	981.8	995.8	1009.9	1026.2	1030.9	1047.3	1056.6
12.5°	984.2	988.8	998.2	1007.5	1021.6	1037.9	1049.6	1066.0	1068.3	1084.7	1103.4
15°	1030.9	1035.6	1040.3	1051.9	1070.6	1091.7	1112.7	1124.4	1129.1	1138.4	1152.5
17.5°	1101.0	1105.7	1108.1	1115.1	1129.1	1157.1	1187.5	1196.9	1201.6	1201.6	1213.2
20°	1220.3	1217.9	1213.2	1199.2	1199.2	1224.9	1267.0	1283.4	1288.1	1278.7	1271.7
22.5°	1358.2	1355.8	1337.1	1320.8	1309.1	1313.8	1355.8	1383.9	1381.6	1362.9	1334.8
25°	1538.2	1542.9	1512.5	1470.4	1435.3	1426.0	1451.7	1479.7	1484.4	1449.4	1402.6
27.5°	1753.2	1746.2	1729.9	1662.1	1594.3	1552.2	1566.2	1596.6	1599.0	1561.6	1486.8
30°	2005.7	1994.0	1951.9	1881.8	1776.6	1718.2	1706.5	1732.2	1739.2	1676.1	1568.6
32.5°	2286.2	2274.5	2220.8	2113.2	1998.7	1900.5	1863.1	1898.2	1893.5	1821.0	1671.4
35°	2625.2	2622.9	2524.7	2391.4	2246.5	2115.6	2064.2	2064.2	2078.2	1970.6	1802.3
37.5°	3078.7	3097.4	2952.5	2744.4	2541.0	2365.7	2279.2	2274.5	2276.9	2160.0	1949.6
40°	3487.8	3480.8	3396.6	3202.6	2905.7	2681.3	2552.7	2524.7	2531.7	2382.1	2141.3
42.5°	3723.9	3730.9	3709.9	3625.7	3366.2	3083.4	2863.6	2788.8	2791.2	2604.2	2323.6
45°	3871.2	3878.2	3875.8	3917.9	3815.1	3548.6	3235.3	3062.3	3053.0	2856.6	2538.7
47.5°	3955.3	3960.0	3990.4	4076.9	4161.0	4100.3	3646.8	3366.2	3347.5	3092.7	2753.8
50°	3861.8	3864.2	3985.7	4191.4	4397.1	4581.8	4067.5	3667.8	3663.1	3354.5	2964.2
52.5°	3370.9	3413.0	3681.8	4111.9	4572.5	4923.1	4553.8	4023.1	3983.4	3602.3	3174.5
55°	2751.4	2770.1	3078.7	3625.7	4539.7	5133.5	4920.8	4406.5	4378.4	3878.2	3380.3
57.5°	2148.3	2167.0	2534.0	2989.9	4039.5	5121.8	5180.3	4820.3	4757.1	4119.0	3586.0
60°	1386.2	1444.7	1870.1	2431.2	3270.4	4766.5	5311.2	5217.7	5159.2	4357.4	3761.3
62.5°	942.1	951.4	1217.9	1802.3	2447.5	3873.5	5301.8	5463.1	5453.8	4595.8	3936.6
65°	612.5	626.5	787.8	1220.3	1750.9	2571.4	5068.1	5582.3	5591.7	4743.1	4051.2
66°	519.0	528.3	652.2	1026.2	1533.5	2038.4	4862.3	5573.0	5591.7	4810.9	4086.2
67.5°	451.2	458.2	521.3	757.4	1253.0	1465.7	4327.0	5449.1	5502.9	4874.0	4130.6
70°	388.1	397.4	455.8	516.6	895.3	855.6	2739.7	5131.2	5184.9	4904.4	4158.7
72.5°	320.3	327.3	385.7	467.5	649.9	575.1	1208.6	4392.5	4528.1	4792.2	4114.3
75°	252.5	257.1	310.9	390.4	497.9	448.8	526.0	3221.3	3391.9	4224.2	3941.3
77.5°	196.4	198.7	240.8	303.9	455.8	348.3	324.9	1568.6	1984.7	3263.4	3471.4
80°	135.6	140.3	177.7	229.1	334.3	275.8	217.4	612.5	778.4	2167.0	2632.2
82.5°	88.8	91.2	121.6	173.0	222.1	264.2	142.6	296.9	327.3	998.2	1140.8
85°	60.8	60.8	86.5	107.5	151.9	175.3	93.5	156.6	170.6	378.7	137.9
87.5°	30.4	30.4	42.1	56.1	72.5	67.8	56.1	56.1	56.1	123.9	39.7
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°	960.8	960.8	960.8	960.8	960.8	960.8	960.8	960.8	960.8	960.8	960.8
2.5°	965.5	965.5	967.8	970.1	972.5	972.5	974.8	974.8	972.5	974.8	977.1
5°	986.5	988.8	993.5	1000.5	1012.2	1023.9	1035.6	1042.6	1049.6	1051.9	1047.3
7.5°	1019.2	1023.9	1040.3	1059.0	1077.7	1105.7	1122.1	1131.4	1136.1	1140.8	1136.1
10°	1061.3	1070.6	1094.0	1126.8	1159.5	1194.5	1213.2	1227.3	1229.6	1234.3	1229.6
12.5°	1110.4	1126.8	1161.8	1208.6	1248.3	1283.4	1297.4	1288.1	1267.0	1257.7	1255.3
15°	1168.8	1185.2	1234.3	1292.7	1339.5	1355.8	1334.8	1304.4	1281.0	1278.7	1276.4
17.5°	1220.3	1243.6	1311.4	1372.2	1416.6	1400.3	1344.2	1325.5	1318.4	1327.8	1325.5
20°	1285.7	1304.4	1372.2	1447.0	1470.4	1407.3	1367.5	1355.8	1348.8	1348.8	1344.2
22.5°	1339.5	1353.5	1435.3	1517.1	1503.1	1411.9	1383.9	1360.5	1337.1	1334.8	1327.8
25°	1402.6	1407.3	1493.8	1582.6	1507.8	1416.6	1367.5	1327.8	1304.4	1297.4	1299.7
27.5°	1461.0	1472.7	1547.5	1627.0	1496.1	1390.9	1311.4	1260.0	1224.9	1222.6	1222.6
30°	1535.8	1535.8	1603.6	1676.1	1470.4	1325.5	1220.3	1145.5	1117.4	1115.1	1110.4
32.5°	1620.0	1606.0	1671.4	1711.2	1414.3	1236.6	1096.4	1012.2	967.8	958.4	951.4
35°	1736.9	1706.5	1753.2	1718.2	1358.2	1110.4	939.7	843.9	811.2	797.1	797.1
37.5°	1872.5	1828.1	1877.1	1697.1	1271.7	963.1	776.1	703.6	668.6	647.5	654.5
40°	2031.4	1975.3	2003.4	1673.8	1178.2	799.5	640.5	596.1	554.0	526.0	526.0
42.5°	2218.4	2124.9	2146.0	1650.4	1044.9	656.9	554.0	523.6	490.9	462.9	469.9
45°	2398.4	2307.3	2286.2	1627.0	904.7	561.0	519.0	497.9	467.5	434.8	434.8
47.5°	2606.5	2489.6	2410.1	1584.9	766.8	530.6	528.3	497.9	439.5	392.7	388.1
50°	2802.9	2695.3	2522.3	1521.8	689.6	556.4	526.0	453.5	397.4	367.0	364.7
52.5°	3010.9	2898.7	2613.5	1444.7	649.9	544.7	483.9	416.1	374.0	343.6	336.6
55°	3216.6	3158.2	2695.3	1369.9	586.8	507.3	448.8	392.7	348.3	320.3	315.6
57.5°	3450.4	3427.0	2765.5	1295.1	488.6	460.5	423.1	376.4	334.3	313.2	310.9
60°	3653.8	3735.6	2849.6	1239.0	416.1	425.5	411.4	374.0	343.6	320.3	320.3
62.5°	3868.8	4032.5	2924.4	1166.5	362.3	404.4	413.8	371.7	331.9	310.9	310.9
65°	4055.8	4336.4	3001.6	1033.2	324.9	388.1	406.8	346.0	299.2	282.9	278.2
66°	4135.3	4422.9	3024.9	951.4	310.9	376.4	395.1	331.9	285.2	271.2	268.8
67.5°	4228.8	4558.4	3053.0	776.1	289.9	350.6	369.4	310.9	261.8	252.5	247.8
70°	4359.7	4586.5	3036.6	507.3	252.5	301.6	329.6	278.2	233.8	226.8	219.7
72.5°	4373.8	4394.8	2873.0	320.3	219.7	259.5	289.9	250.1	205.7	198.7	194.0
75°	4142.3	3894.5	2431.2	229.1	194.0	229.1	254.8	217.4	170.6	161.3	156.6
77.5°	3536.9	3090.4	1748.6	170.6	168.3	196.4	212.7	189.4	142.6	135.6	133.2
80°	2482.6	2096.9	876.6	128.6	133.2	163.6	177.7	159.0	119.2	109.9	105.2
82.5°	1005.2	890.6	301.6	95.8	100.5	123.9	151.9	130.9	91.2	79.5	70.1
85°	114.5	194.0	130.9	65.5	67.8	84.2	102.9	79.5	53.8	44.4	37.4
87.5°	23.4	42.1	46.8	25.7	23.4	32.7	46.8	28.1	18.7	7.0	9.4
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)