

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: P594374

Luminaire Tested: **ISC-PA1F-730-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594374  
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-PA1F-730-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10564 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

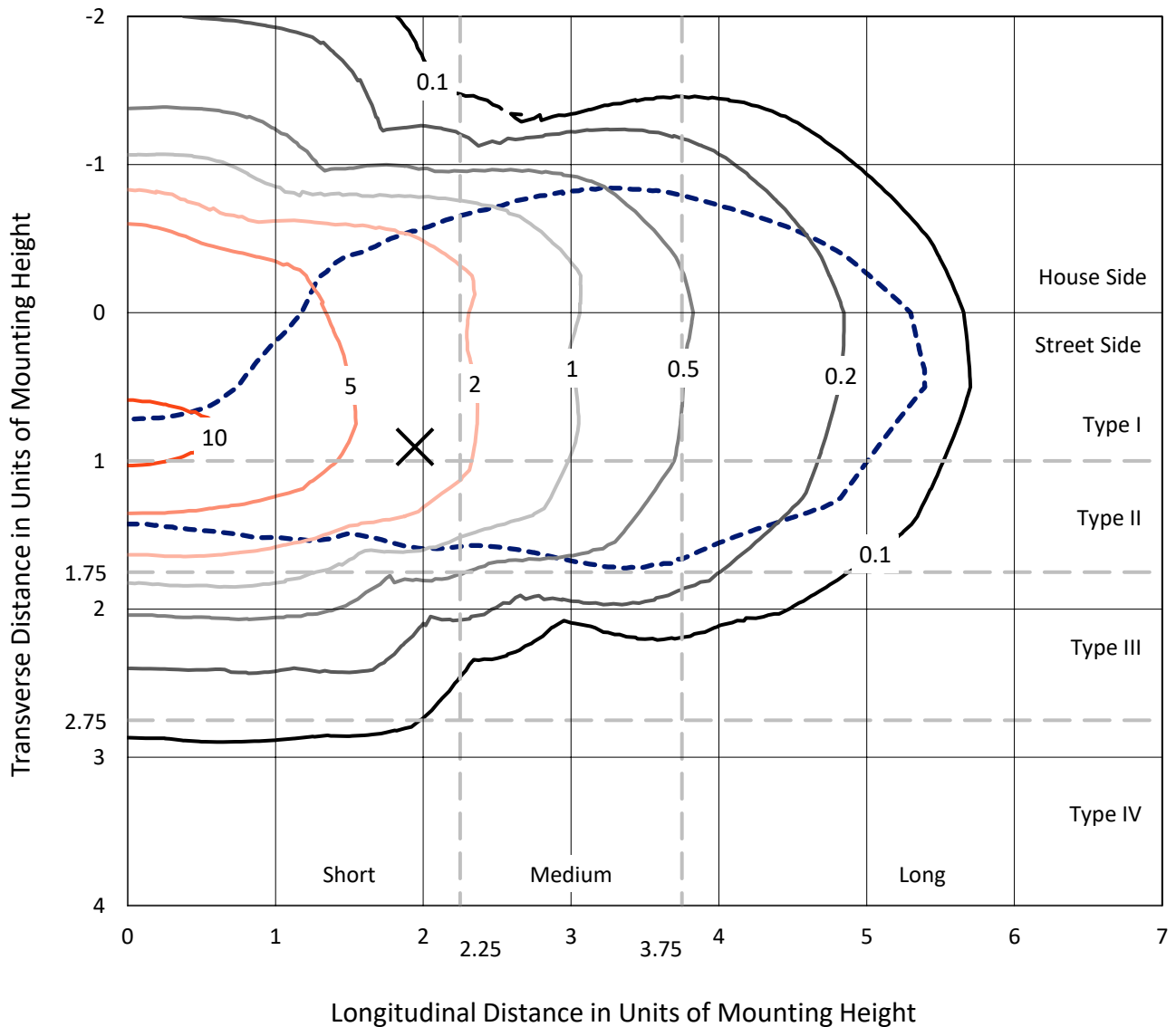
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

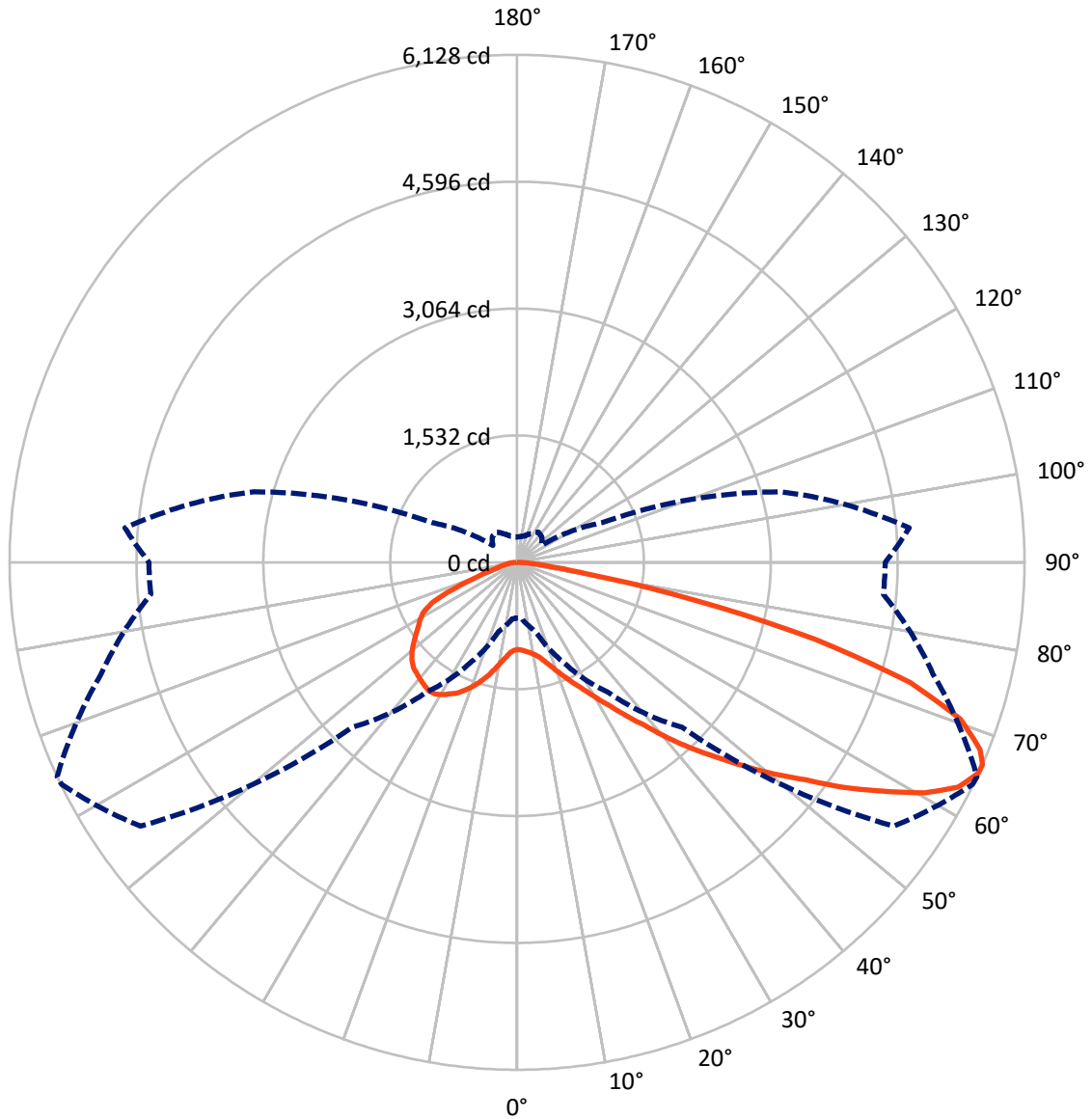
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.7 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	3207.6	0.0	3207.6
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	7356.3	0.0	7356.3
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	10564.0	0.0	10564.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	1.0
10°-20°	374.4	3.5
20°-30°	733.2	6.9
30°-40°	1198.2	11.3
40°-50°	1901.8	18.0
50°-60°	2445.9	23.2
60°-70°	2205.8	20.9
70°-80°	1368.1	13.0
80°-90°	229.2	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°	10564.0	100.0
0°-180°	10564.0	100.0

**Coefficient of Utilization**

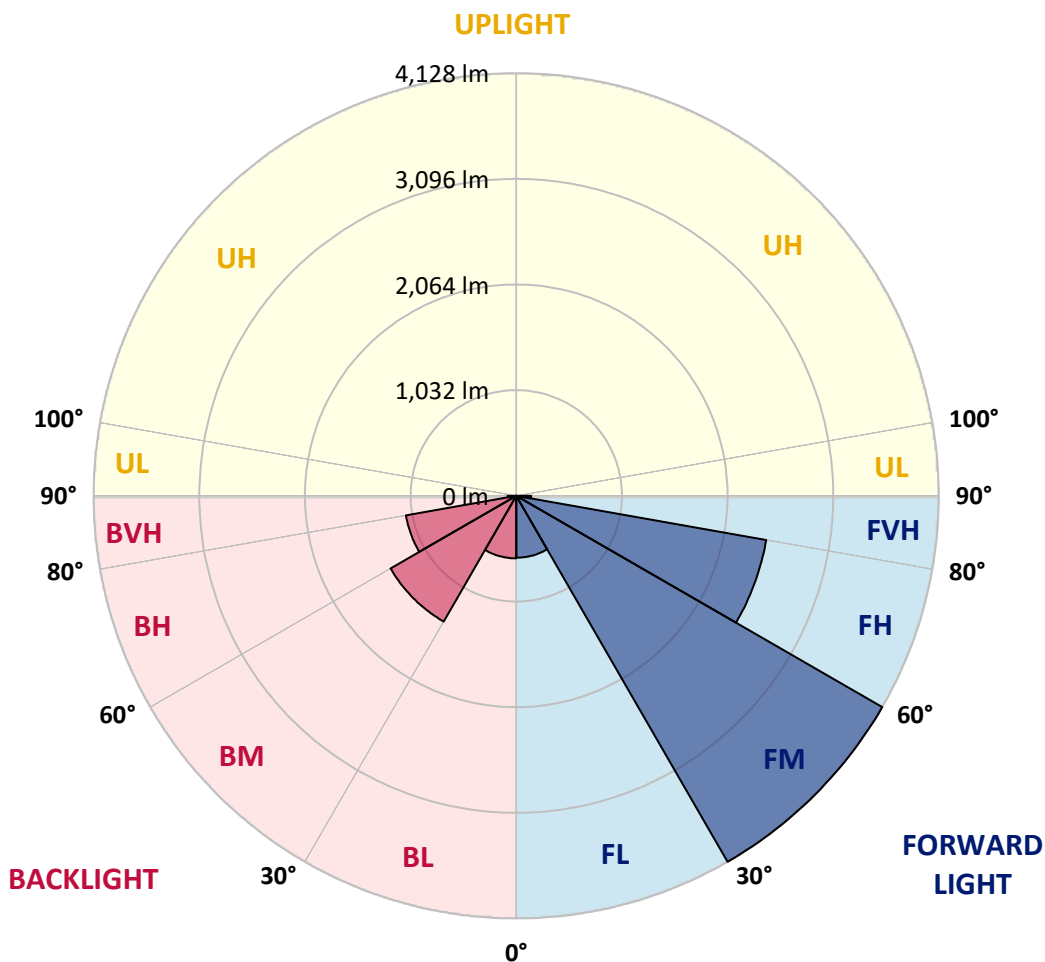


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.1	5.7			
FM (30°-60°)	4127.8	39.1			
FH (60°-80°)	2479.4	23.5			G2/5000
FVH (80°-90°)	145.0	1.4			G2/225
BL (0°-30°)	610.9	5.8	B2/1000		
BM (30°-60°)	1418.0	13.4	B2/2500		
BH (60°-80°)	1094.5	10.4	B3/2500		G3/2500
BVH (80°-90°)	84.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1055.5	1058.1	1060.7	1055.5	1060.7	1063.2	1058.1	1058.1	1060.7	1055.5	1055.5
5°	1047.9	1050.4	1055.5	1058.1	1068.4	1073.5	1076.0	1076.0	1078.6	1076.0	1078.6
7.5°	1027.4	1027.4	1037.6	1042.7	1058.1	1076.0	1086.3	1101.7	1101.7	1104.2	1111.9
10°	1047.9	1047.9	1055.5	1063.2	1076.0	1091.4	1106.8	1124.7	1129.8	1147.8	1158.0
12.5°	1078.6	1083.7	1094.0	1104.2	1119.6	1137.5	1150.3	1168.3	1170.8	1188.8	1209.3
15°	1129.8	1135.0	1140.1	1152.9	1173.4	1196.5	1219.5	1232.3	1237.4	1247.7	1263.1
17.5°	1206.7	1211.8	1214.4	1222.1	1237.4	1268.2	1301.5	1311.7	1316.9	1316.9	1329.7
20°	1337.4	1334.8	1329.7	1314.3	1314.3	1342.5	1388.6	1406.5	1411.7	1401.4	1393.7
22.5°	1488.5	1486.0	1465.5	1447.5	1434.7	1439.8	1486.0	1516.7	1514.1	1493.6	1462.9
25°	1685.8	1690.9	1657.6	1611.5	1573.1	1562.8	1591.0	1621.7	1626.9	1588.4	1537.2
27.5°	1921.5	1913.8	1895.9	1821.6	1747.3	1701.2	1716.5	1749.8	1752.4	1711.4	1629.4
30°	2198.2	2185.4	2139.3	2062.4	1947.1	1883.1	1870.3	1898.4	1906.1	1836.9	1719.1
32.5°	2505.6	2492.8	2433.9	2316.0	2190.5	2082.9	2041.9	2080.3	2075.2	1995.8	1831.8
35°	2877.1	2874.6	2767.0	2620.9	2462.1	2318.6	2262.2	2262.2	2277.6	2159.8	1975.3
37.5°	3374.1	3394.6	3235.8	3007.8	2784.9	2592.7	2497.9	2492.8	2495.4	2367.3	2136.7
40°	3822.5	3814.8	3722.6	3509.9	3184.6	2938.6	2797.7	2767.0	2774.6	2610.7	2346.8
42.5°	4081.3	4088.9	4065.9	3973.7	3689.3	3379.3	3138.4	3056.5	3059.0	2854.1	2546.6
45°	4242.7	4250.3	4247.8	4293.9	4181.2	3889.1	3545.8	3356.2	3346.0	3130.8	2782.3
47.5°	4334.9	4340.0	4373.3	4468.1	4560.3	4493.7	3996.7	3689.3	3668.8	3389.5	3018.0
50°	4232.4	4235.0	4368.2	4593.7	4819.1	5021.5	4457.9	4019.8	4014.6	3676.5	3248.6
52.5°	3694.4	3740.5	4035.1	4506.5	5011.3	5395.6	4990.8	4409.2	4365.6	3948.0	3479.2
55°	3015.5	3036.0	3374.1	3973.7	4975.4	5626.1	5393.0	4829.4	4798.6	4250.3	3704.6
57.5°	2354.5	2375.0	2777.2	3276.8	4427.1	5613.3	5677.4	5282.8	5213.7	4514.2	3930.1
60°	1519.3	1583.3	2049.6	2664.5	3584.2	5223.9	5820.8	5718.4	5654.3	4775.6	4122.2
62.5°	1032.5	1042.7	1334.8	1975.3	2682.4	4245.2	5810.6	5987.4	5977.1	5036.9	4314.4
65°	671.2	686.6	863.4	1337.4	1918.9	2818.2	5554.4	6118.0	6128.3	5198.3	4439.9
66°	568.8	579.0	714.8	1124.7	1680.7	2234.1	5328.9	6107.8	6128.3	5272.6	4478.4
67.5°	494.5	502.2	571.3	830.1	1373.2	1606.4	4742.3	5972.0	6030.9	5341.8	4527.0
70°	425.3	435.5	499.6	566.2	981.2	937.7	3002.7	5623.6	5682.5	5375.1	4557.8
72.5°	351.0	358.7	422.7	512.4	712.2	630.3	1324.6	4814.0	4962.6	5252.1	4509.1
75°	276.7	281.8	340.7	427.9	545.7	491.9	576.4	3530.4	3717.5	4629.5	4319.5
77.5°	215.2	217.8	263.9	333.1	499.6	381.7	356.1	1719.1	2175.1	3576.5	3804.6
80°	148.6	153.7	194.7	251.1	366.4	302.3	238.3	671.2	853.1	2375.0	2884.8
82.5°	97.4	99.9	133.2	189.6	243.4	289.5	156.3	325.4	358.7	1094.0	1250.3
85°	66.6	66.6	94.8	117.9	166.5	192.1	102.5	171.7	187.0	415.0	151.2
87.5°	33.3	33.3	46.1	61.5	79.4	74.3	61.5	61.5	61.5	135.8	43.6
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°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1058.1	1058.1	1060.7	1063.2	1065.8	1065.8	1068.4	1068.4	1065.8	1068.4	1070.9
5°	1081.2	1083.7	1088.8	1096.5	1109.3	1122.2	1135.0	1142.6	1150.3	1152.9	1147.8
7.5°	1117.0	1122.2	1140.1	1160.6	1181.1	1211.8	1229.8	1240.0	1245.1	1250.3	1245.1
10°	1163.1	1173.4	1199.0	1234.9	1270.7	1309.2	1329.7	1345.0	1347.6	1352.7	1347.6
12.5°	1216.9	1234.9	1273.3	1324.6	1368.1	1406.5	1421.9	1411.7	1388.6	1378.4	1375.8
15°	1281.0	1298.9	1352.7	1416.8	1468.0	1486.0	1462.9	1429.6	1404.0	1401.4	1398.8
17.5°	1337.4	1363.0	1437.3	1503.9	1552.6	1534.6	1473.1	1452.7	1445.0	1455.2	1452.7
20°	1409.1	1429.6	1503.9	1585.9	1611.5	1542.3	1498.8	1486.0	1478.3	1478.3	1473.1
22.5°	1468.0	1483.4	1573.1	1662.7	1647.4	1547.4	1516.7	1491.1	1465.5	1462.9	1455.2
25°	1537.2	1542.3	1637.1	1734.5	1652.5	1552.6	1498.8	1455.2	1429.6	1421.9	1424.5
27.5°	1601.2	1614.1	1696.0	1783.1	1639.7	1524.4	1437.3	1380.9	1342.5	1339.9	1339.9
30°	1683.2	1683.2	1757.5	1836.9	1611.5	1452.7	1337.4	1255.4	1224.6	1222.1	1216.9
32.5°	1775.5	1760.1	1831.8	1875.4	1550.0	1355.3	1201.6	1109.3	1060.7	1050.4	1042.7
35°	1903.6	1870.3	1921.5	1883.1	1488.5	1216.9	1029.9	924.9	889.0	873.6	873.6
37.5°	2052.2	2003.5	2057.3	1860.0	1393.7	1055.5	850.6	771.2	732.7	709.7	717.4
40°	2226.4	2164.9	2195.6	1834.4	1291.2	876.2	702.0	653.3	607.2	576.4	576.4
42.5°	2431.3	2328.9	2351.9	1808.8	1145.2	719.9	607.2	573.9	538.0	507.3	515.0
45°	2628.6	2528.7	2505.6	1783.1	991.5	614.9	568.8	545.7	512.4	476.5	476.5
47.5°	2856.6	2728.5	2641.4	1737.0	840.3	581.6	579.0	545.7	481.7	430.4	425.3
50°	3071.8	2954.0	2764.4	1667.9	755.8	609.8	576.4	497.0	435.5	402.2	399.7
52.5°	3299.8	3176.9	2864.3	1583.3	712.2	596.9	530.3	456.0	409.9	376.6	368.9
55°	3525.3	3461.3	2954.0	1501.3	643.1	556.0	491.9	430.4	381.7	351.0	345.9
57.5°	3781.5	3755.9	3030.8	1419.3	535.5	504.7	463.7	412.5	366.4	343.3	340.7
60°	4004.4	4094.1	3123.1	1357.9	456.0	466.3	450.9	409.9	376.6	351.0	351.0
62.5°	4240.1	4419.4	3205.1	1278.4	397.1	443.2	453.5	407.4	363.8	340.7	340.7
65°	4445.1	4752.5	3289.6	1132.4	356.1	425.3	445.8	379.2	327.9	310.0	304.9
66°	4532.2	4847.3	3315.2	1042.7	340.7	412.5	433.0	363.8	312.6	297.2	294.6
67.5°	4634.6	4995.9	3346.0	850.6	317.7	384.3	404.8	340.7	286.9	276.7	271.6
70°	4778.1	5026.6	3328.0	556.0	276.7	330.5	361.2	304.9	256.2	248.5	240.8
72.5°	4793.5	4816.5	3148.7	351.0	240.8	284.4	317.7	274.1	225.5	217.8	212.6
75°	4539.9	4268.3	2664.5	251.1	212.6	251.1	279.3	238.3	187.0	176.8	171.7
77.5°	3876.3	3387.0	1916.4	187.0	184.5	215.2	233.1	207.5	156.3	148.6	146.0
80°	2720.8	2298.1	960.7	140.9	146.0	179.3	194.7	174.2	130.7	120.4	115.3
82.5°	1101.7	976.1	330.5	105.0	110.2	135.8	166.5	143.5	99.9	87.1	76.9
85°	125.5	212.6	143.5	71.7	74.3	92.2	112.7	87.1	58.9	48.7	41.0
87.5°	25.6	46.1	51.2	28.2	25.6	35.9	51.2	30.7	20.5	7.7	10.2
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)