

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: P594302

Luminaire Tested: **ISC-PA1E-735-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594302  
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-735-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 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: 9859 lumens  
Efficiency: N/A  
Efficacy: 119.6 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

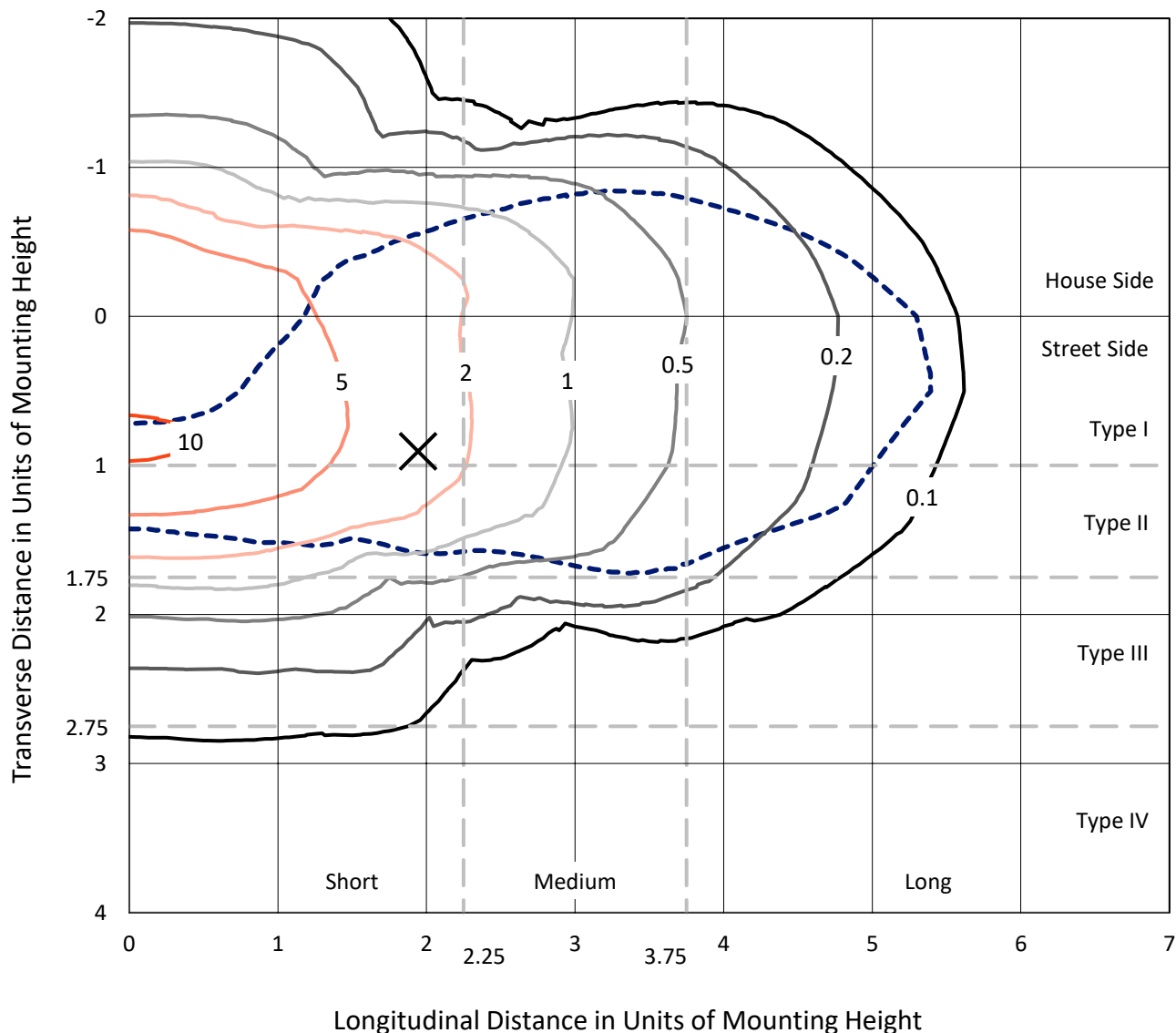
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

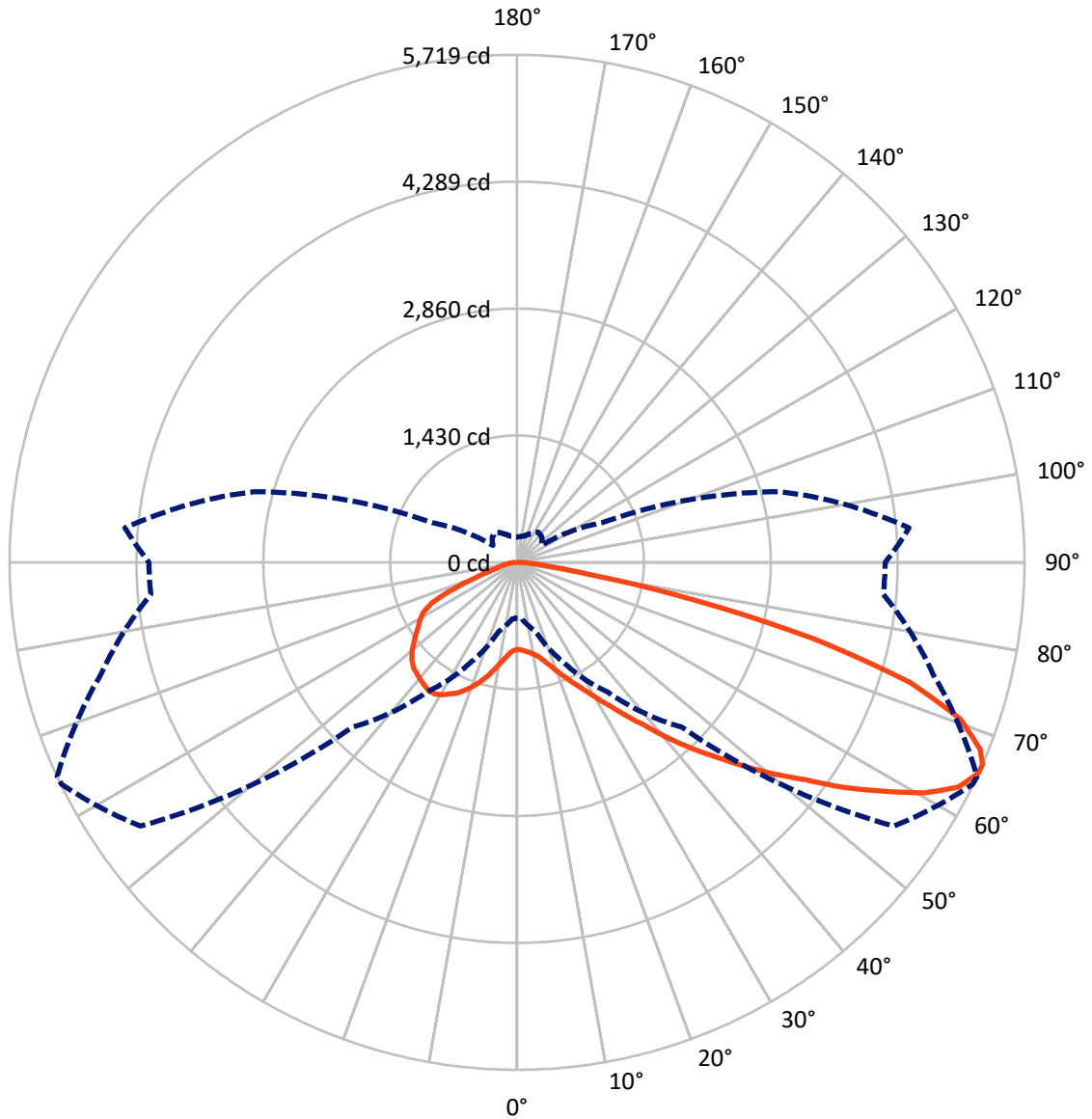
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.9 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	2993.6	0.0	2993.6
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	6865.4	0.0	6865.4
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	9859.0	0.0	9859.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	1.0
10°-20°	349.4	3.5
20°-30°	684.3	6.9
30°-40°	1118.2	11.3
40°-50°	1774.8	18.0
50°-60°	2282.7	23.2
60°-70°	2058.6	20.9
70°-80°	1276.8	13.0
80°-90°	213.9	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°	9859.0	100.0
0°-180°	9859.0	100.0

**Coefficient of Utilization**

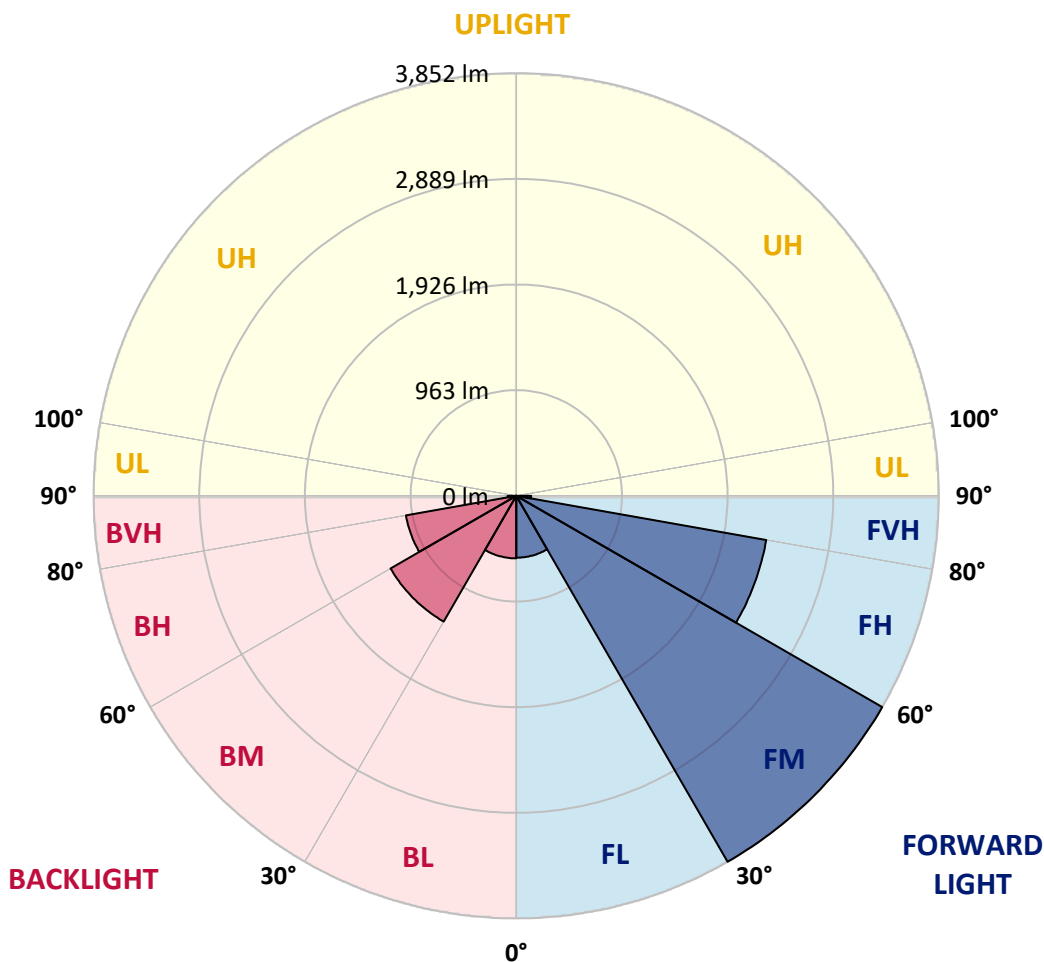


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.8	5.7			
FM (30°-60°)	3852.4	39.1			
FH (60°-80°)	2313.9	23.5			G2/5000
FVH (80°-90°)	135.3	1.4			G2/225
BL (0°-30°)	570.2	5.8	B2/1000		
BM (30°-60°)	1323.4	13.4	B2/2500		
BH (60°-80°)	1021.4	10.4	B3/2500		G3/2500
BVH (80°-90°)	78.6	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°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	985.1	987.5	989.9	985.1	989.9	992.3	987.5	987.5	989.9	985.1	985.1
5°	977.9	980.3	985.1	987.5	997.1	1001.8	1004.2	1004.2	1006.6	1004.2	1006.6
7.5°	958.8	958.8	968.4	973.1	987.5	1004.2	1013.8	1028.1	1028.1	1030.5	1037.7
10°	977.9	977.9	985.1	992.3	1004.2	1018.6	1032.9	1049.7	1054.4	1071.2	1080.7
12.5°	1006.6	1011.4	1021.0	1030.5	1044.9	1061.6	1073.6	1090.3	1092.7	1109.4	1128.6
15°	1054.4	1059.2	1064.0	1076.0	1095.1	1116.6	1138.1	1150.1	1154.9	1164.4	1178.8
17.5°	1126.2	1131.0	1133.3	1140.5	1154.9	1183.6	1214.6	1224.2	1229.0	1229.0	1240.9
20°	1248.1	1245.7	1240.9	1226.6	1226.6	1252.9	1295.9	1312.7	1317.4	1307.9	1300.7
22.5°	1389.2	1386.8	1367.7	1350.9	1339.0	1343.8	1386.8	1415.5	1413.1	1394.0	1365.3
25°	1573.3	1578.1	1547.0	1503.9	1468.1	1458.5	1484.8	1513.5	1518.3	1482.4	1434.6
27.5°	1793.3	1786.1	1769.4	1700.0	1630.7	1587.6	1602.0	1633.1	1635.5	1597.2	1520.7
30°	2051.5	2039.5	1996.5	1924.8	1817.2	1757.4	1745.4	1771.7	1778.9	1714.4	1604.4
32.5°	2338.4	2326.5	2271.5	2161.5	2044.3	1943.9	1905.6	1941.5	1936.7	1862.6	1709.6
35°	2685.1	2682.7	2582.3	2446.0	2297.8	2163.9	2111.3	2111.3	2125.6	2015.6	1843.5
37.5°	3149.0	3168.1	3019.9	2807.1	2599.0	2419.7	2331.2	2326.5	2328.8	2209.3	1994.1
40°	3567.4	3560.2	3474.1	3275.7	2972.0	2742.5	2611.0	2582.3	2589.5	2436.4	2190.2
42.5°	3808.9	3816.1	3794.5	3708.5	3443.1	3153.8	2929.0	2852.5	2854.9	2663.6	2376.7
45°	3959.5	3966.7	3964.3	4007.3	3902.1	3629.6	3309.2	3132.2	3122.7	2921.8	2596.6
47.5°	4045.6	4050.4	4081.5	4169.9	4256.0	4193.8	3730.0	3443.1	3423.9	3163.3	2816.6
50°	3950.0	3952.3	4076.7	4287.1	4497.5	4686.4	4160.4	3751.5	3746.7	3431.1	3031.8
52.5°	3447.8	3490.9	3765.9	4205.8	4676.8	5035.5	4657.7	4114.9	4074.3	3684.6	3247.0
55°	2814.2	2833.4	3149.0	3708.5	4643.4	5250.7	5033.1	4507.1	4478.4	3966.7	3457.4
57.5°	2197.3	2216.5	2591.9	3058.1	4131.7	5238.7	5298.5	4930.3	4865.7	4213.0	3667.8
60°	1417.9	1477.6	1912.8	2486.7	3345.0	4875.3	5432.4	5336.7	5277.0	4456.9	3847.1
62.5°	963.6	973.1	1245.7	1843.5	2503.4	3961.9	5422.8	5587.8	5578.2	4700.7	4026.5
65°	626.4	640.8	805.8	1248.1	1790.9	2630.1	5183.7	5709.7	5719.3	4851.4	4143.6
66°	530.8	540.4	667.1	1049.7	1568.5	2085.0	4973.3	5700.2	5719.3	4920.7	4179.5
67.5°	461.5	468.6	533.2	774.7	1281.6	1499.2	4425.8	5573.5	5628.5	4985.3	4224.9
70°	396.9	406.5	466.2	528.4	915.8	875.1	2802.3	5248.3	5303.3	5016.4	4253.6
72.5°	327.6	334.7	394.5	478.2	664.7	588.2	1236.2	4492.7	4631.4	4901.6	4208.2
75°	258.2	263.0	318.0	399.3	509.3	459.1	538.0	3294.8	3469.4	4320.6	4031.3
77.5°	200.8	203.2	246.3	310.8	466.2	356.3	332.4	1604.4	2030.0	3337.9	3550.7
80°	138.7	143.5	181.7	234.3	341.9	282.1	222.4	626.4	796.2	2216.5	2692.3
82.5°	90.9	93.2	124.3	176.9	227.1	270.2	145.9	303.7	334.7	1021.0	1166.8
85°	62.2	62.2	88.5	110.0	155.4	179.3	95.6	160.2	174.5	387.3	141.1
87.5°	31.1	31.1	43.0	57.4	74.1	69.3	57.4	57.4	57.4	126.7	40.6
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°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	987.5	987.5	989.9	992.3	994.7	994.7	997.1	997.1	994.7	997.1	999.4
5°	1009.0	1011.4	1016.2	1023.4	1035.3	1047.3	1059.2	1066.4	1073.6	1076.0	1071.2
7.5°	1042.5	1047.3	1064.0	1083.1	1102.3	1131.0	1147.7	1157.3	1162.0	1166.8	1162.0
10°	1085.5	1095.1	1119.0	1152.5	1185.9	1221.8	1240.9	1255.3	1257.7	1262.5	1257.7
12.5°	1135.7	1152.5	1188.3	1236.2	1276.8	1312.7	1327.0	1317.4	1295.9	1286.4	1284.0
15°	1195.5	1212.2	1262.5	1322.2	1370.1	1386.8	1365.3	1334.2	1310.3	1307.9	1305.5
17.5°	1248.1	1272.0	1341.4	1403.5	1449.0	1432.2	1374.8	1355.7	1348.5	1358.1	1355.7
20°	1315.1	1334.2	1403.5	1480.0	1503.9	1439.4	1398.7	1386.8	1379.6	1379.6	1374.8
22.5°	1370.1	1384.4	1468.1	1551.8	1537.4	1444.2	1415.5	1391.6	1367.7	1365.3	1358.1
25°	1434.6	1439.4	1527.9	1618.7	1542.2	1449.0	1398.7	1358.1	1334.2	1327.0	1329.4
27.5°	1494.4	1506.3	1582.9	1664.1	1530.3	1422.7	1341.4	1288.8	1252.9	1250.5	1250.5
30°	1570.9	1570.9	1640.2	1714.4	1503.9	1355.7	1248.1	1171.6	1142.9	1140.5	1135.7
32.5°	1657.0	1642.6	1709.6	1750.2	1446.6	1264.8	1121.4	1035.3	989.9	980.3	973.1
35°	1776.5	1745.4	1793.3	1757.4	1389.2	1135.7	961.2	863.2	829.7	815.3	815.3
37.5°	1915.2	1869.8	1920.0	1735.9	1300.7	985.1	793.8	719.7	683.8	662.3	669.5
40°	2077.8	2020.4	2049.1	1712.0	1205.1	817.7	655.1	609.7	566.7	538.0	538.0
42.5°	2269.1	2173.4	2195.0	1688.1	1068.8	671.9	566.7	535.6	502.1	473.4	480.6
45°	2453.2	2359.9	2338.4	1664.1	925.3	573.8	530.8	509.3	478.2	444.7	444.7
47.5°	2666.0	2546.4	2465.1	1621.1	784.3	542.8	540.4	509.3	449.5	401.7	396.9
50°	2866.8	2756.8	2579.9	1556.6	705.3	569.1	538.0	463.9	406.5	375.4	373.0
52.5°	3079.6	2964.9	2673.2	1477.6	664.7	557.1	494.9	425.6	382.6	351.5	344.3
55°	3290.0	3230.3	2756.8	1401.1	600.1	518.9	459.1	401.7	356.3	327.6	322.8
57.5°	3529.1	3505.2	2828.6	1324.6	499.7	471.0	432.8	385.0	341.9	320.4	318.0
60°	3737.2	3820.8	2914.6	1267.2	425.6	435.2	420.8	382.6	351.5	327.6	327.6
62.5°	3957.1	4124.5	2991.2	1193.1	370.6	413.6	423.2	380.2	339.5	318.0	318.0
65°	4148.4	4435.3	3070.1	1056.8	332.4	396.9	416.0	353.9	306.1	289.3	284.5
66°	4229.7	4523.8	3094.0	973.1	318.0	385.0	404.1	339.5	291.7	277.4	275.0
67.5°	4325.3	4662.5	3122.7	793.8	296.5	358.7	377.8	318.0	267.8	258.2	253.4
70°	4459.2	4691.2	3105.9	518.9	258.2	308.4	337.1	284.5	239.1	231.9	224.8
72.5°	4473.6	4495.1	2938.6	327.6	224.8	265.4	296.5	255.8	210.4	203.2	198.5
75°	4236.9	3983.4	2486.7	234.3	198.5	234.3	260.6	222.4	174.5	165.0	160.2
77.5°	3617.6	3160.9	1788.5	174.5	172.2	200.8	217.6	193.7	145.9	138.7	136.3
80°	2539.3	2144.7	896.6	131.5	136.3	167.4	181.7	162.6	121.9	112.4	107.6
82.5°	1028.1	911.0	308.4	98.0	102.8	126.7	155.4	133.9	93.2	81.3	71.7
85°	117.2	198.5	133.9	66.9	69.3	86.1	105.2	81.3	55.0	45.4	38.3
87.5°	23.9	43.0	47.8	26.3	23.9	33.5	47.8	28.7	19.1	7.2	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

(END OF REPORT)