

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: P593968

Luminaire Tested: **ISC-PA1A-735-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P593968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1A-735-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2872 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

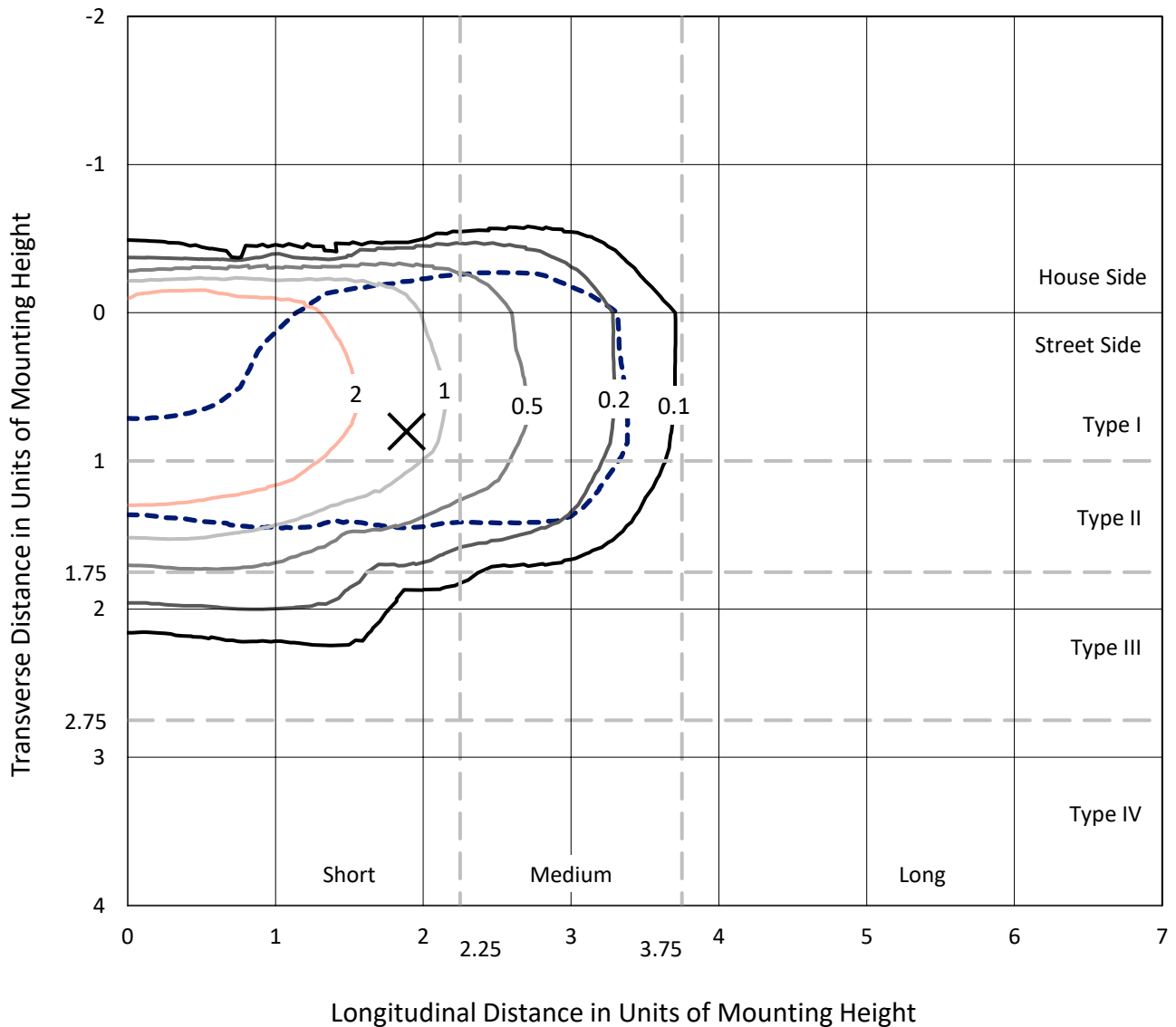
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

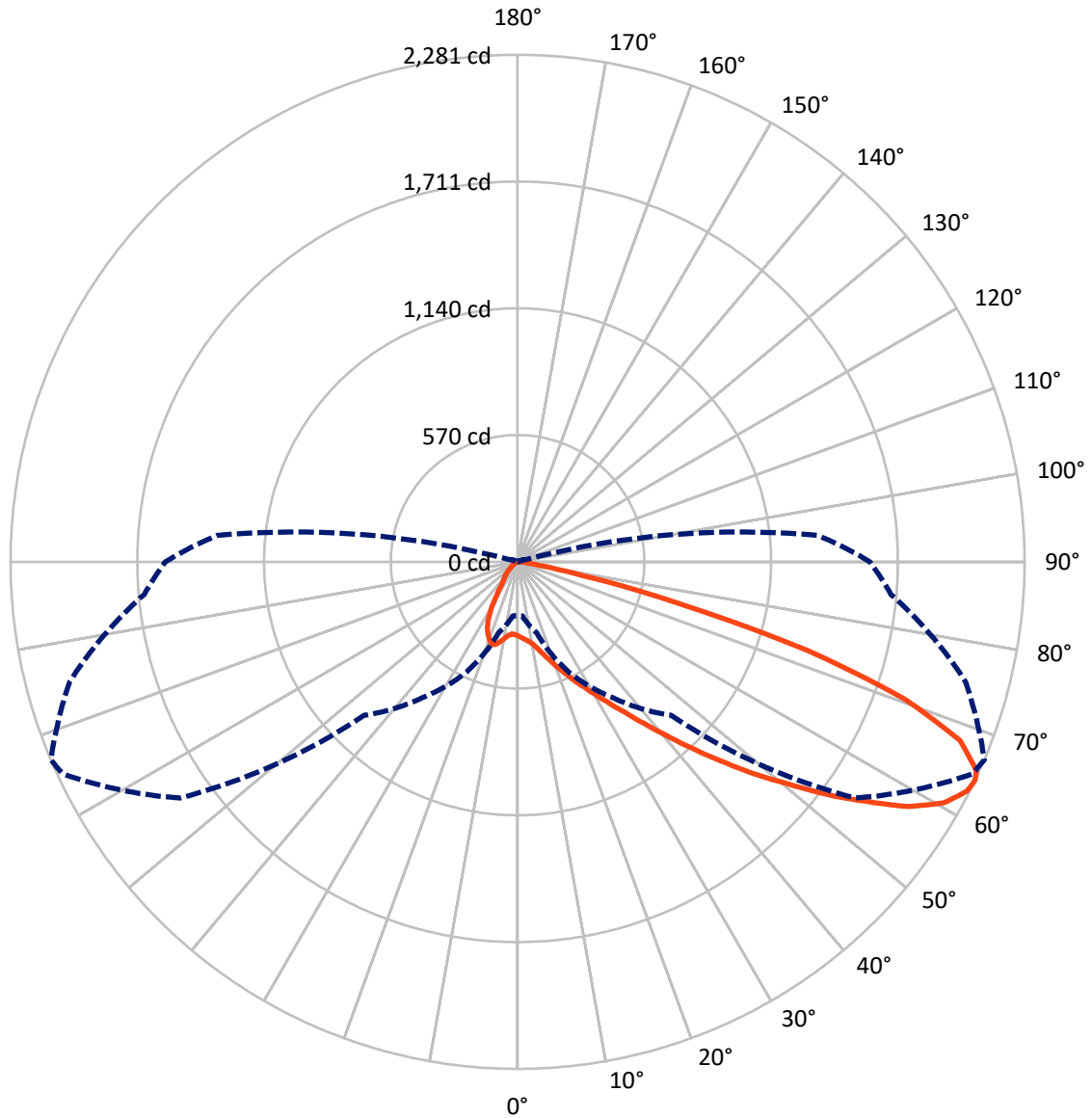
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	367.4	0.0	367.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2504.6	0.0	2504.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2872.0	0.0	2872.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	1.1
10°-20°	93.4	3.3
20°-30°	169.5	5.9
30°-40°	324.8	11.3
40°-50°	598.5	20.8
50°-60°	773.1	26.9
60°-70°	633.2	22.0
70°-80°	232.8	8.1
80°-90°	15.0	0.5
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°	2872.0	100.0
0°-180°	2872.0	100.0

**Coefficient of Utilization**

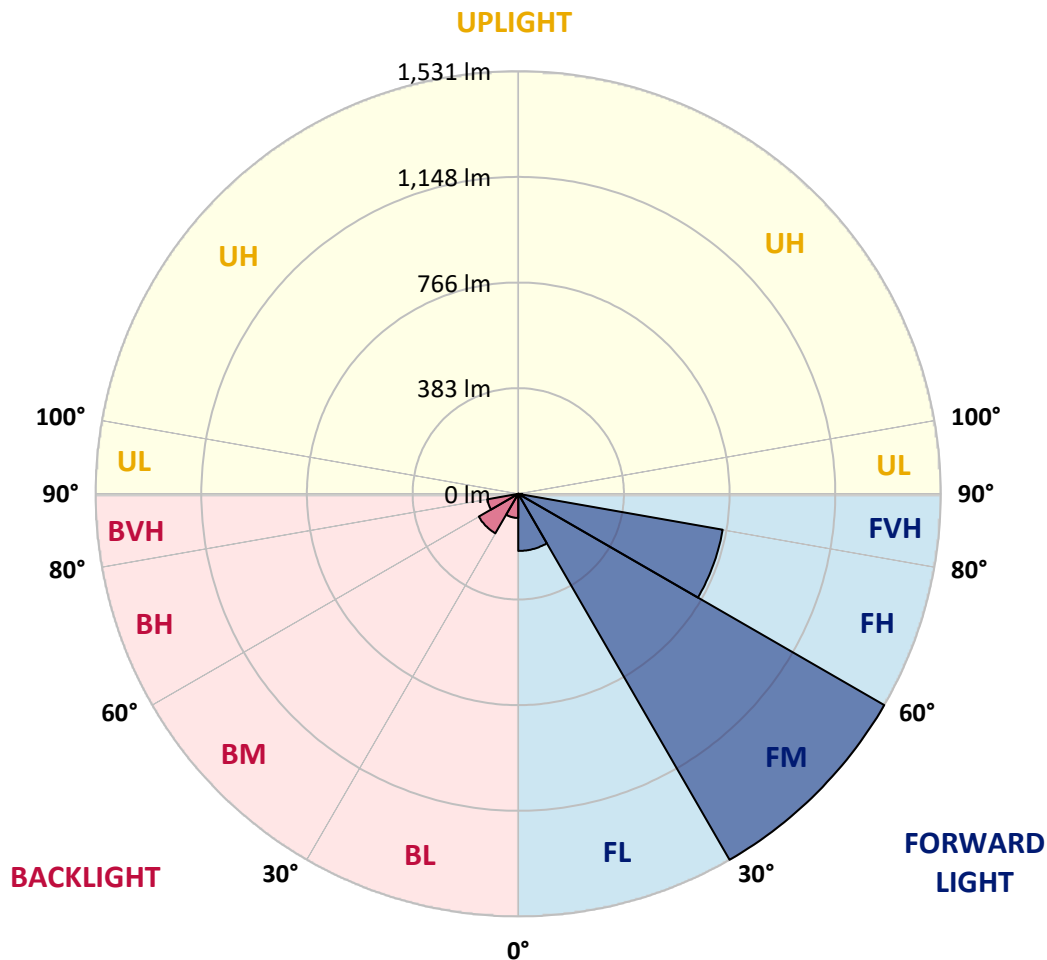


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.1	7.2			
FM (30°-60°)	1531.2	53.3			
FH (60°-80°)	752.0	26.2			G1/1800
FVH (80°-90°)	14.3	0.5			G1/100
BL (0°-30°)	87.6	3.0	B0/110		
BM (30°-60°)	165.2	5.8	B0/220		
BH (60°-80°)	114.0	4.0	B1/500		G1/500
BVH (80°-90°)	0.7	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7
2.5°	345.6	345.6	347.5	346.5	346.5	344.6	341.6	342.6	341.6	340.6	337.7
5°	339.6	340.6	341.6	343.6	347.5	349.5	349.5	350.5	350.5	349.5	345.6
7.5°	336.7	338.6	340.6	342.6	347.5	350.5	355.4	361.4	361.4	362.3	358.4
10°	347.5	349.5	352.5	355.4	360.4	365.3	369.3	376.2	376.2	378.1	377.2
12.5°	370.2	370.2	371.2	373.2	380.1	386.0	393.0	398.9	399.9	400.8	397.9
15°	397.9	397.9	398.9	398.9	402.8	411.7	424.5	430.5	429.5	428.5	422.6
17.5°	429.5	429.5	429.5	430.5	432.4	437.4	452.2	464.0	463.1	462.1	450.2
20°	459.1	461.1	463.1	464.0	466.0	470.0	485.8	499.6	502.5	498.6	477.9
22.5°	492.7	493.7	494.6	497.6	502.5	504.5	520.3	541.0	544.0	539.1	511.4
25°	526.2	528.2	531.2	535.1	540.1	549.9	560.8	588.4	591.4	585.5	548.0
27.5°	600.3	599.3	590.4	583.5	584.5	591.4	606.2	635.8	638.8	632.9	584.5
30°	726.7	714.8	698.0	667.4	637.8	640.8	661.5	690.1	695.1	687.2	625.0
32.5°	906.4	894.5	853.0	785.9	720.7	699.0	725.7	753.3	759.2	750.4	672.4
35°	1081.1	1078.1	1038.7	957.7	847.1	786.9	793.8	829.3	831.3	820.5	731.6
37.5°	1297.3	1286.5	1232.2	1141.3	1011.0	903.4	883.6	917.2	922.2	909.3	803.7
40°	1440.5	1436.5	1404.0	1339.8	1199.6	1064.3	993.2	1025.8	1024.8	1006.1	886.6
42.5°	1523.4	1525.4	1523.4	1492.8	1412.8	1257.8	1138.4	1140.3	1143.3	1123.6	982.4
45°	1579.7	1579.7	1582.7	1607.3	1576.7	1488.9	1315.1	1270.7	1274.6	1244.0	1082.1
47.5°	1578.7	1584.6	1600.4	1657.7	1699.2	1704.1	1536.3	1422.7	1420.7	1374.3	1184.8
50°	1472.1	1468.1	1533.3	1661.6	1786.1	1881.8	1745.6	1583.7	1566.9	1509.6	1291.4
52.5°	1232.2	1245.0	1353.6	1542.2	1806.8	2002.3	1926.3	1759.4	1737.7	1643.9	1385.2
55°	1022.9	1036.7	1142.3	1327.0	1694.2	2044.7	2047.7	1946.0	1902.6	1760.4	1482.0
57.5°	768.1	794.8	950.8	1124.6	1447.4	1939.1	2091.1	2124.7	2077.3	1872.9	1560.9
60°	490.7	506.5	681.2	895.5	1172.9	1662.6	2082.2	2228.4	2202.7	1975.6	1627.1
62.5°	320.9	329.8	450.2	674.3	893.5	1252.9	1976.6	2269.8	2269.8	2044.7	1676.5
64°	241.9	243.9	329.8	548.0	745.4	976.5	1852.2	2257.0	2280.7	2086.2	1686.3
65°	191.5	192.5	257.7	455.2	669.4	800.7	1743.6	2229.4	2267.9	2102.0	1692.3
67.5°	134.3	137.2	166.9	262.6	479.8	462.1	1292.4	2099.0	2146.4	2106.9	1684.4
70°	116.5	120.5	140.2	171.8	342.6	268.5	687.2	1789.0	1845.3	1962.8	1567.9
72.5°	88.9	93.8	117.5	145.1	240.9	181.7	265.6	1270.7	1359.5	1517.5	1294.4
75°	64.2	66.2	86.9	118.5	168.8	140.2	114.5	655.6	745.4	895.5	804.7
77.5°	40.5	43.4	59.2	88.9	151.1	106.6	68.1	238.9	301.1	390.0	351.5
80°	23.7	24.7	35.5	61.2	101.7	79.0	43.4	84.9	102.7	145.1	93.8
82.5°	13.8	14.8	22.7	41.5	66.2	61.2	27.6	43.4	48.4	55.3	19.7
85°	4.9	4.9	15.8	24.7	35.5	30.6	15.8	22.7	24.7	30.6	5.9
87.5°	1.0	1.0	7.9	12.8	12.8	4.9	7.9	9.9	11.8	16.8	2.0
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°	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7
2.5°	336.7	333.7	330.8	326.8	323.8	317.9	315.0	311.0	310.0	308.0	307.1
5°	344.6	339.6	332.7	322.9	316.9	308.0	302.1	296.2	295.2	293.2	292.2
7.5°	355.4	350.5	341.6	330.8	320.9	312.0	305.1	296.2	287.3	280.4	280.4
10°	373.2	367.3	355.4	345.6	333.7	315.0	282.4	252.8	234.0	222.1	218.2
12.5°	394.9	387.0	374.2	362.3	339.6	280.4	230.0	191.5	159.9	145.1	142.2
15°	417.6	410.7	397.9	380.1	312.0	234.0	167.8	108.6	78.0	64.2	66.2
17.5°	442.3	432.4	417.6	382.1	274.5	174.8	89.8	55.3	47.4	45.4	45.4
20°	468.0	455.2	440.3	360.4	226.1	100.7	51.3	41.5	38.5	35.5	36.5
22.5°	495.6	479.8	457.1	327.8	161.9	54.3	39.5	33.6	29.6	28.6	28.6
25°	525.3	502.5	473.9	290.3	93.8	41.5	32.6	26.7	23.7	22.7	21.7
27.5°	556.8	528.2	477.9	240.9	53.3	34.6	25.7	20.7	17.8	16.8	16.8
30°	585.5	553.9	469.0	178.7	40.5	28.6	20.7	15.8	13.8	13.8	13.8
32.5°	624.0	582.5	441.3	111.6	32.6	22.7	15.8	12.8	10.9	10.9	10.9
35°	674.3	625.0	413.7	59.2	26.7	18.8	12.8	9.9	8.9	8.9	8.9
37.5°	743.4	681.2	389.0	37.5	21.7	14.8	9.9	7.9	6.9	6.9	6.9
40°	814.5	748.4	354.4	28.6	17.8	11.8	7.9	5.9	4.9	4.9	5.9
42.5°	903.4	826.4	315.0	24.7	14.8	9.9	5.9	3.9	3.0	3.9	3.9
45°	993.2	908.3	259.7	20.7	12.8	7.9	3.9	2.0	2.0	3.0	3.0
47.5°	1086.0	995.2	201.4	17.8	10.9	5.9	3.0	1.0	1.0	2.0	2.0
50°	1181.8	1081.1	150.1	15.8	8.9	4.9	2.0	1.0	0.0	1.0	1.0
52.5°	1277.6	1164.0	116.5	13.8	7.9	3.9	1.0	0.0	0.0	0.0	1.0
55°	1366.4	1239.1	92.8	11.8	6.9	3.0	1.0	0.0	0.0	0.0	0.0
57.5°	1441.5	1294.4	74.0	10.9	5.9	2.0	1.0	0.0	0.0	0.0	0.0
60°	1512.6	1337.8	57.3	8.9	4.9	2.0	1.0	0.0	0.0	0.0	0.0
62.5°	1562.9	1354.6	46.4	7.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
64°	1584.6	1356.6	40.5	6.9	3.9	2.0	1.0	0.0	0.0	0.0	0.0
65°	1597.5	1350.6	37.5	6.9	3.9	2.0	1.0	0.0	0.0	0.0	0.0
67.5°	1600.4	1318.1	28.6	5.9	3.0	1.0	1.0	0.0	0.0	0.0	0.0
70°	1513.6	1204.5	20.7	3.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1264.7	920.2	13.8	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	789.9	397.9	7.9	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	326.8	120.5	4.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	75.0	28.6	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	4.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	1.0	1.0	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)