

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: P594060

Luminaire Tested: **ISC-PA1B-735-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1B-735-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3700 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 36.4  
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

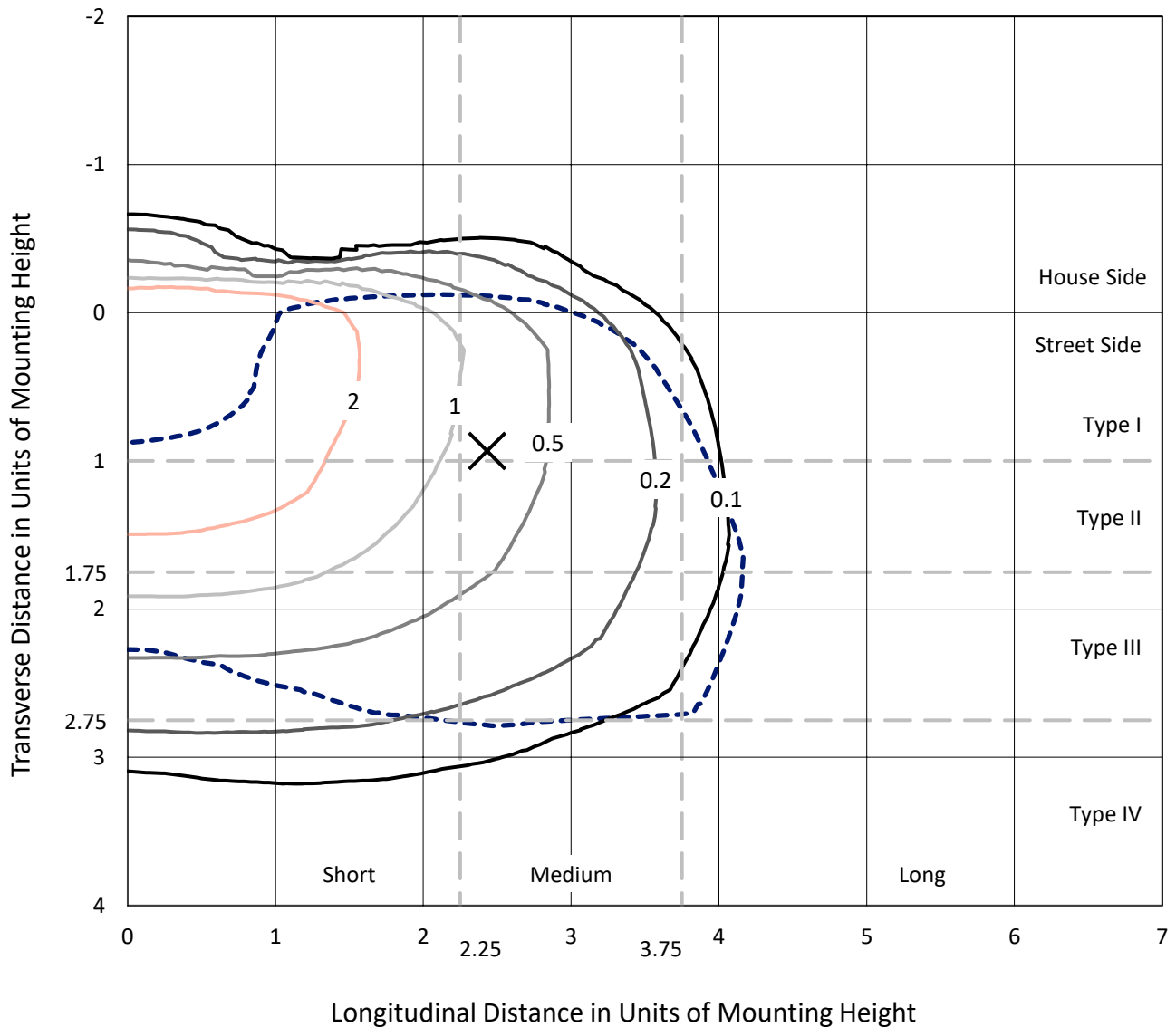




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### Iso-Footcandle Lines of Horizontal Illumination

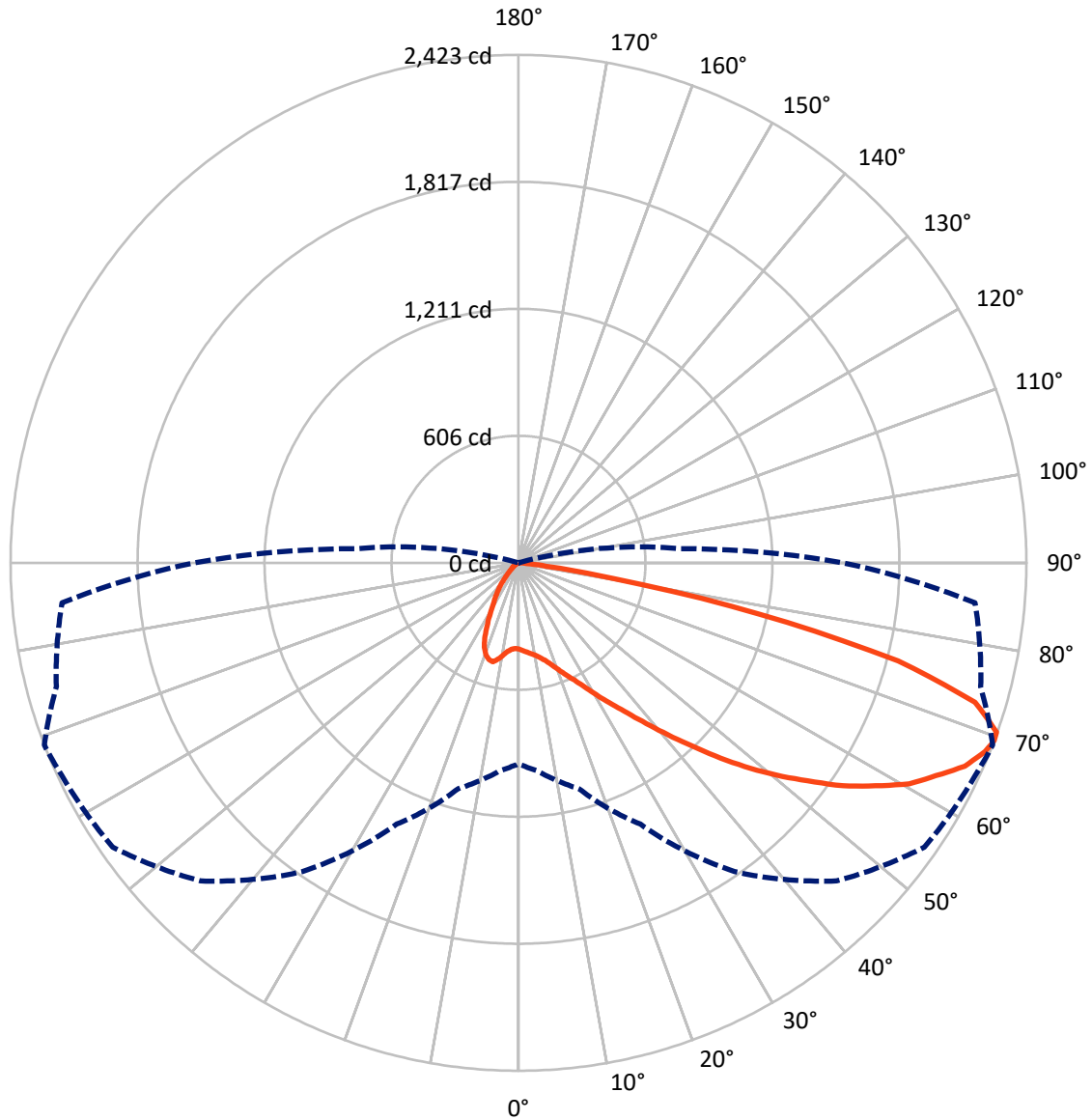
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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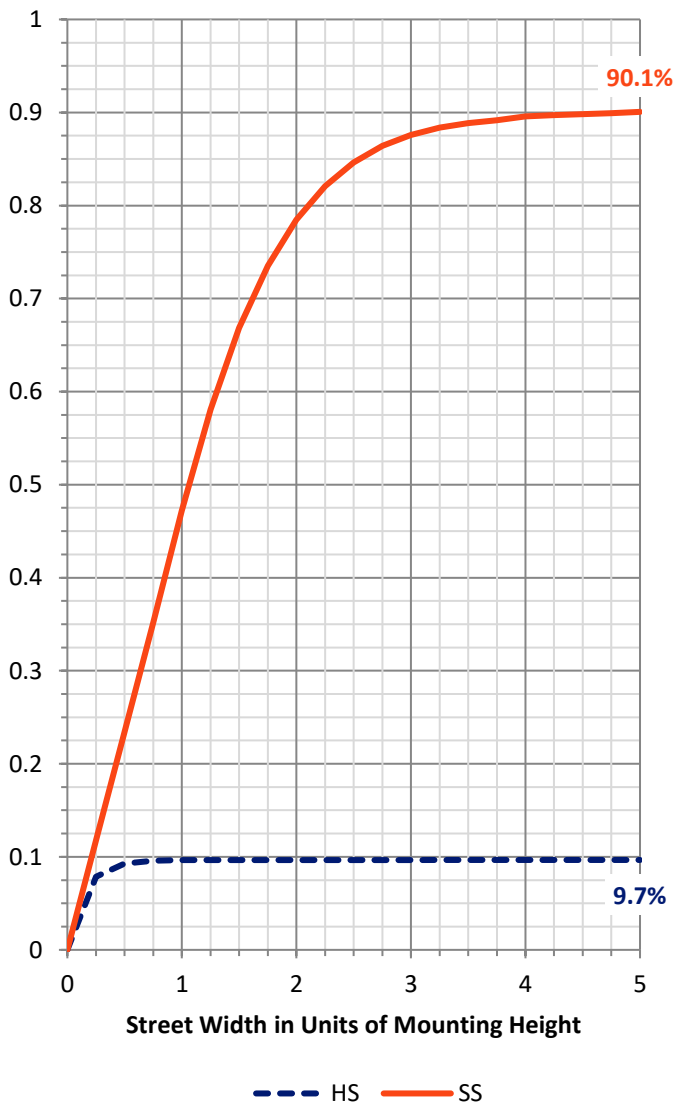
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	360.5	0.0	360.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	3339.5	0.0	3339.5
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	3700.0	0.0	3700.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.2	1.1
10°-20°	103.8	2.8
20°-30°	172.9	4.7
30°-40°	311.2	8.4
40°-50°	564.3	15.3
50°-60°	881.9	23.8
60°-70°	1020.3	27.6
70°-80°	570.6	15.4
80°-90°	35.6	1.0
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°	3700.0	100.0
0°-180°	3700.0	100.0

**Coefficient of Utilization**

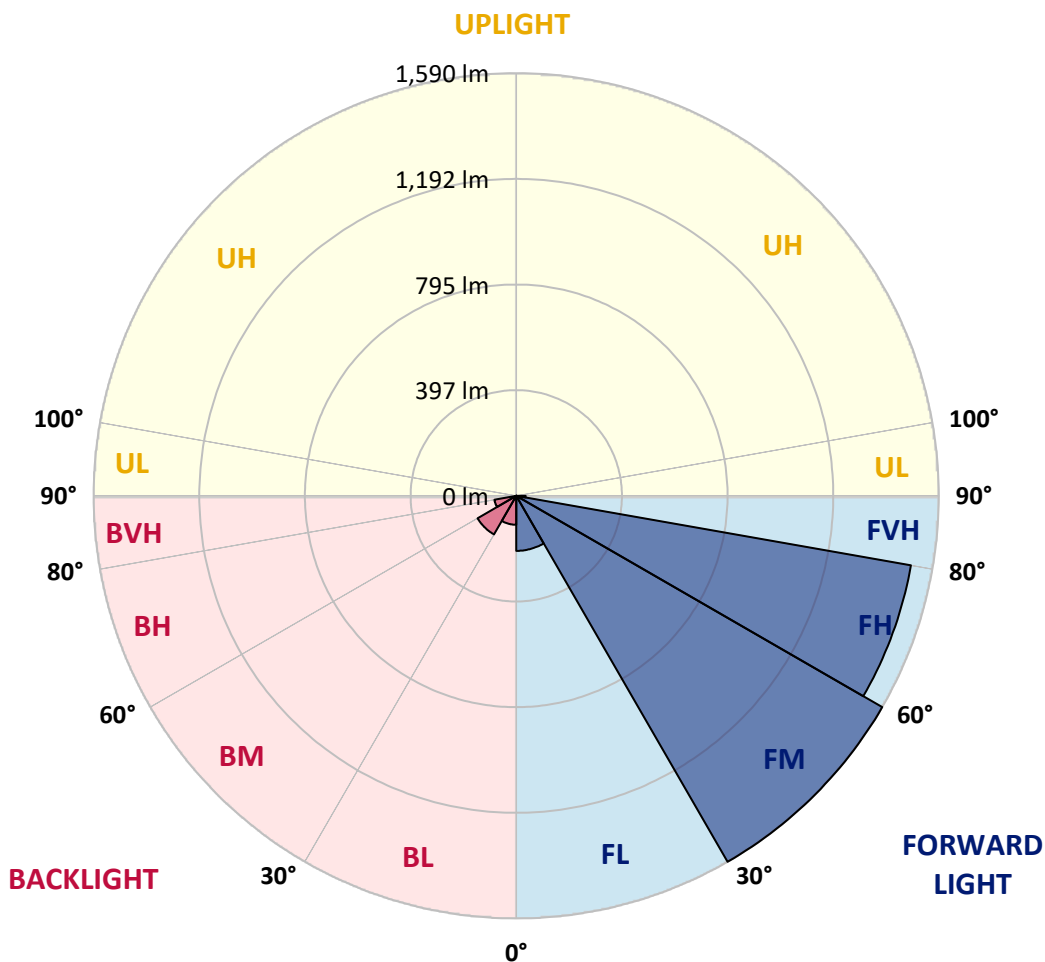


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.0	5.6			
FM (30°-60°)	1589.6	43.0			
FH (60°-80°)	1507.5	40.7			G1/1800
FVH (80°-90°)	35.4	1.0			G1/100
BL (0°-30°)	109.0	2.9	B0/110		
BM (30°-60°)	167.8	4.5	B0/220		
BH (60°-80°)	83.5	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6
2.5°	426.4	426.4	426.4	423.9	425.1	423.9	422.7	419.0	420.2	419.0	415.3
5°	411.6	412.8	416.5	419.0	425.1	427.6	428.8	428.8	427.6	425.1	422.7
7.5°	383.2	383.2	386.9	394.3	406.6	420.2	431.3	437.4	438.7	438.7	435.0
10°	375.8	375.8	380.8	385.7	398.0	414.0	431.3	446.1	448.5	451.0	449.8
12.5°	372.1	373.4	378.3	386.9	402.9	417.7	436.2	457.2	464.6	470.7	471.9
15°	377.1	377.1	382.0	390.6	409.1	430.0	453.5	476.9	484.3	492.9	499.1
17.5°	384.5	386.9	389.4	398.0	415.3	441.1	471.9	502.8	511.4	522.5	527.4
20°	396.8	396.8	399.2	406.6	425.1	455.9	499.1	536.0	543.4	550.8	557.0
22.5°	411.6	412.8	412.8	419.0	439.9	473.2	522.5	568.1	580.4	584.1	586.5
25°	455.9	453.5	444.8	441.1	457.2	492.9	550.8	606.3	619.8	623.5	618.6
27.5°	548.3	538.5	515.1	490.4	488.0	523.7	589.0	654.3	669.1	670.3	653.1
30°	664.2	665.4	627.2	574.2	538.5	557.0	630.9	714.7	729.5	723.3	696.2
32.5°	807.1	801.0	772.6	696.2	624.7	608.7	676.5	777.5	794.8	784.9	749.2
35°	929.1	932.8	898.3	830.5	740.6	688.8	731.9	847.8	868.7	851.5	807.1
37.5°	1031.4	1036.3	1015.4	959.9	879.8	798.5	804.6	930.3	958.7	941.4	886.0
40°	1144.7	1148.4	1139.8	1079.4	1008.0	929.1	902.0	1025.2	1063.4	1040.0	982.1
42.5°	1269.2	1282.8	1268.0	1219.9	1146.0	1078.2	1037.5	1141.0	1179.2	1164.5	1086.8
45°	1439.2	1440.5	1423.2	1375.2	1298.8	1243.3	1194.0	1264.3	1313.6	1295.1	1203.9
47.5°	1564.9	1573.6	1563.7	1530.4	1468.8	1431.9	1364.1	1399.8	1451.6	1428.2	1324.6
50°	1661.0	1684.5	1675.8	1685.7	1654.9	1638.9	1535.4	1540.3	1590.8	1571.1	1447.9
52.5°	1714.0	1743.6	1746.1	1796.6	1822.5	1861.9	1701.7	1694.3	1726.4	1709.1	1573.6
55°	1706.6	1714.0	1775.6	1868.1	1969.1	2059.1	1864.4	1833.6	1877.9	1829.9	1706.6
57.5°	1635.2	1653.7	1762.1	1876.7	2055.4	2186.0	2004.8	1970.3	2007.3	1943.2	1843.4
60°	1532.9	1560.0	1699.2	1863.1	2105.9	2262.4	2141.6	2107.1	2140.4	2062.8	1998.7
62.5°	1440.5	1452.8	1581.0	1806.5	2076.3	2258.7	2247.6	2215.6	2235.3	2153.9	2131.8
65°	1308.6	1313.6	1440.5	1704.2	2011.0	2234.0	2305.5	2317.8	2338.8	2230.3	2226.6
67.5°	1105.3	1116.4	1242.1	1525.5	1902.6	2186.0	2351.1	2375.7	2400.4	2271.0	2243.9
69°	958.7	994.4	1115.2	1375.2	1797.8	2145.3	2363.4	2402.9	2422.6	2282.1	2186.0
70°	839.1	870.0	1009.2	1259.3	1705.4	2099.7	2372.0	2399.2	2418.9	2258.7	2091.1
72.5°	421.4	460.9	651.9	919.2	1355.5	1891.5	2327.7	2298.1	2277.2	2077.5	1691.9
75°	162.7	168.8	279.7	523.7	847.8	1388.7	1987.6	1932.1	1870.5	1576.0	1003.0
77.5°	90.0	88.7	122.0	231.7	361.0	679.0	1344.4	1255.6	1170.6	846.5	406.6
80°	38.2	40.7	53.0	110.9	189.8	235.4	653.1	580.4	462.1	268.6	97.3
82.5°	23.4	24.6	37.0	67.8	131.8	90.0	211.9	181.1	133.1	72.7	23.4
85°	7.4	8.6	25.9	45.6	64.1	37.0	48.1	41.9	37.0	30.8	7.4
87.5°	1.2	1.2	9.9	24.6	17.3	6.2	4.9	8.6	13.6	14.8	2.5
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°	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6	411.6
2.5°	414.0	411.6	409.1	407.9	407.9	405.4	404.2	402.9	402.9	401.7	401.7
5°	419.0	416.5	414.0	412.8	410.3	409.1	409.1	409.1	407.9	409.1	410.3
7.5°	431.3	427.6	426.4	425.1	425.1	421.4	415.3	399.2	383.2	378.3	373.4
10°	448.5	447.3	447.3	447.3	438.7	406.6	362.3	322.8	301.9	284.6	284.6
12.5°	473.2	473.2	471.9	468.2	423.9	346.3	277.3	218.1	183.6	163.9	166.4
15°	500.3	499.1	501.5	478.1	373.4	267.4	167.6	118.3	99.8	97.3	97.3
17.5°	528.6	531.1	528.6	452.2	306.8	165.1	99.8	90.0	87.5	87.5	87.5
20°	558.2	555.7	552.0	407.9	223.0	103.5	86.3	83.8	81.3	80.1	80.1
22.5°	587.8	585.3	560.7	351.2	139.2	85.0	81.3	76.4	72.7	71.5	71.5
25°	616.1	616.1	544.6	278.5	94.9	80.1	73.9	69.0	65.3	61.6	61.6
27.5°	651.9	654.3	518.8	194.7	80.1	73.9	66.5	59.1	54.2	51.8	51.8
30°	692.5	696.2	476.9	126.9	72.7	65.3	57.9	49.3	41.9	39.4	38.2
32.5°	740.6	744.3	428.8	83.8	65.3	56.7	48.1	37.0	29.6	28.3	27.1
35°	802.2	793.6	370.9	66.5	56.7	48.1	37.0	25.9	20.9	19.7	19.7
37.5°	878.6	860.1	304.4	57.9	48.1	38.2	27.1	17.3	13.6	13.6	12.3
40°	966.1	914.3	235.4	51.8	40.7	29.6	17.3	11.1	8.6	8.6	8.6
42.5°	1062.2	959.9	167.6	45.6	33.3	20.9	11.1	6.2	4.9	4.9	4.9
45°	1173.1	1001.8	114.6	39.4	28.3	14.8	6.2	2.5	2.5	2.5	2.5
47.5°	1284.0	1028.9	76.4	34.5	20.9	8.6	3.7	1.2	1.2	1.2	1.2
50°	1396.1	1049.9	59.1	29.6	14.8	4.9	1.2	0.0	0.0	0.0	0.0
52.5°	1495.9	1064.6	48.1	24.6	9.9	3.7	1.2	0.0	0.0	0.0	0.0
55°	1582.2	1065.9	41.9	19.7	7.4	2.5	0.0	0.0	0.0	0.0	0.0
57.5°	1669.7	1056.0	35.7	14.8	4.9	1.2	0.0	0.0	0.0	0.0	0.0
60°	1722.7	1030.1	28.3	11.1	3.7	1.2	0.0	0.0	0.0	0.0	0.0
62.5°	1754.7	987.0	22.2	7.4	2.5	1.2	0.0	0.0	0.0	0.0	0.0
65°	1736.2	932.8	16.0	4.9	2.5	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	1650.0	849.0	11.1	3.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0
69°	1547.7	772.6	9.9	2.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
70°	1457.7	713.5	8.6	2.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1085.6	459.6	7.4	2.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
75°	610.0	154.0	4.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	229.2	39.4	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	50.5	9.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0	0.0	0.0	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)