

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: P595041

Luminaire Tested: **IST-PA1B-730-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595041  
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: IST-PA1B-730-U-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 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: 3431 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

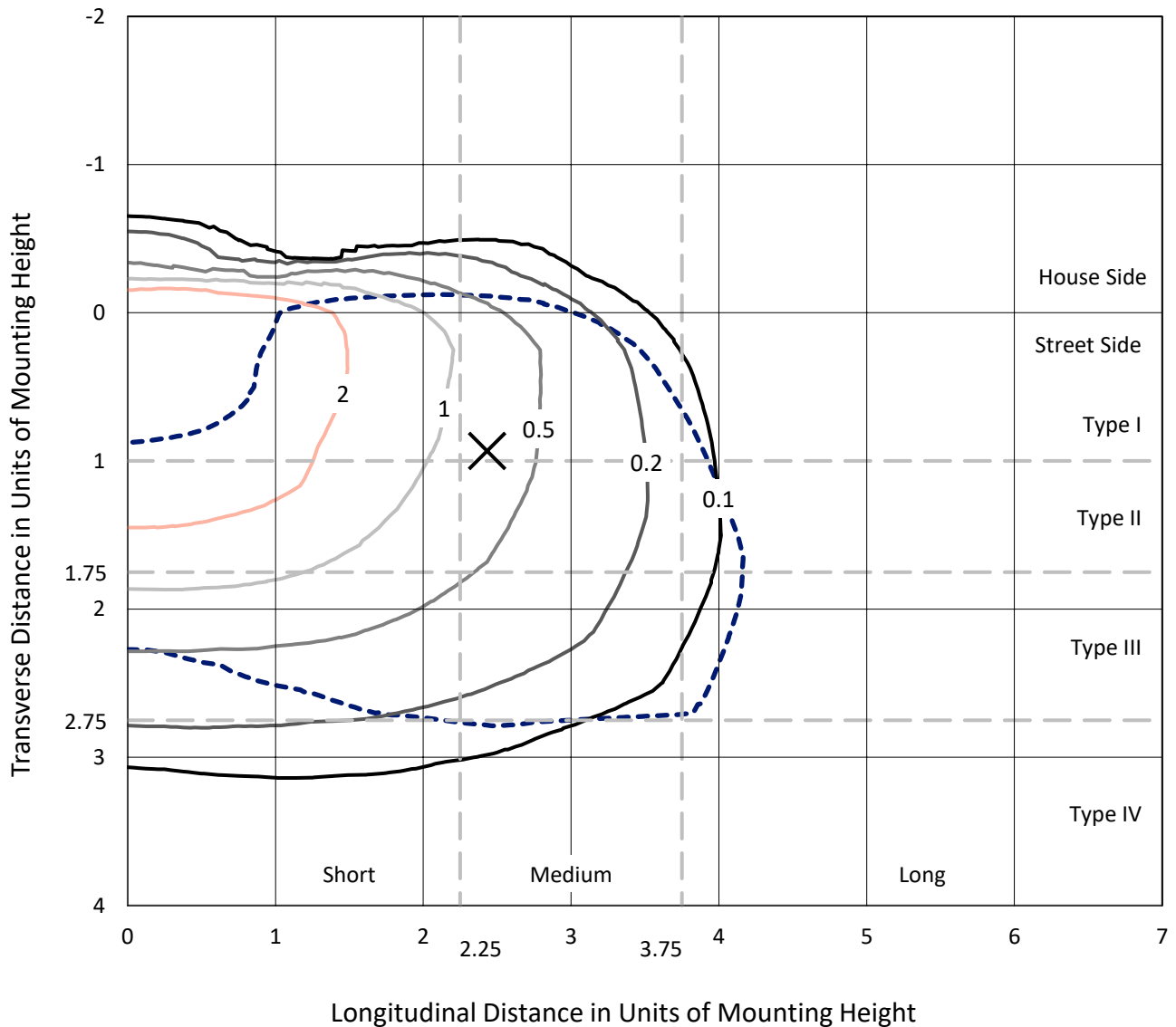
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

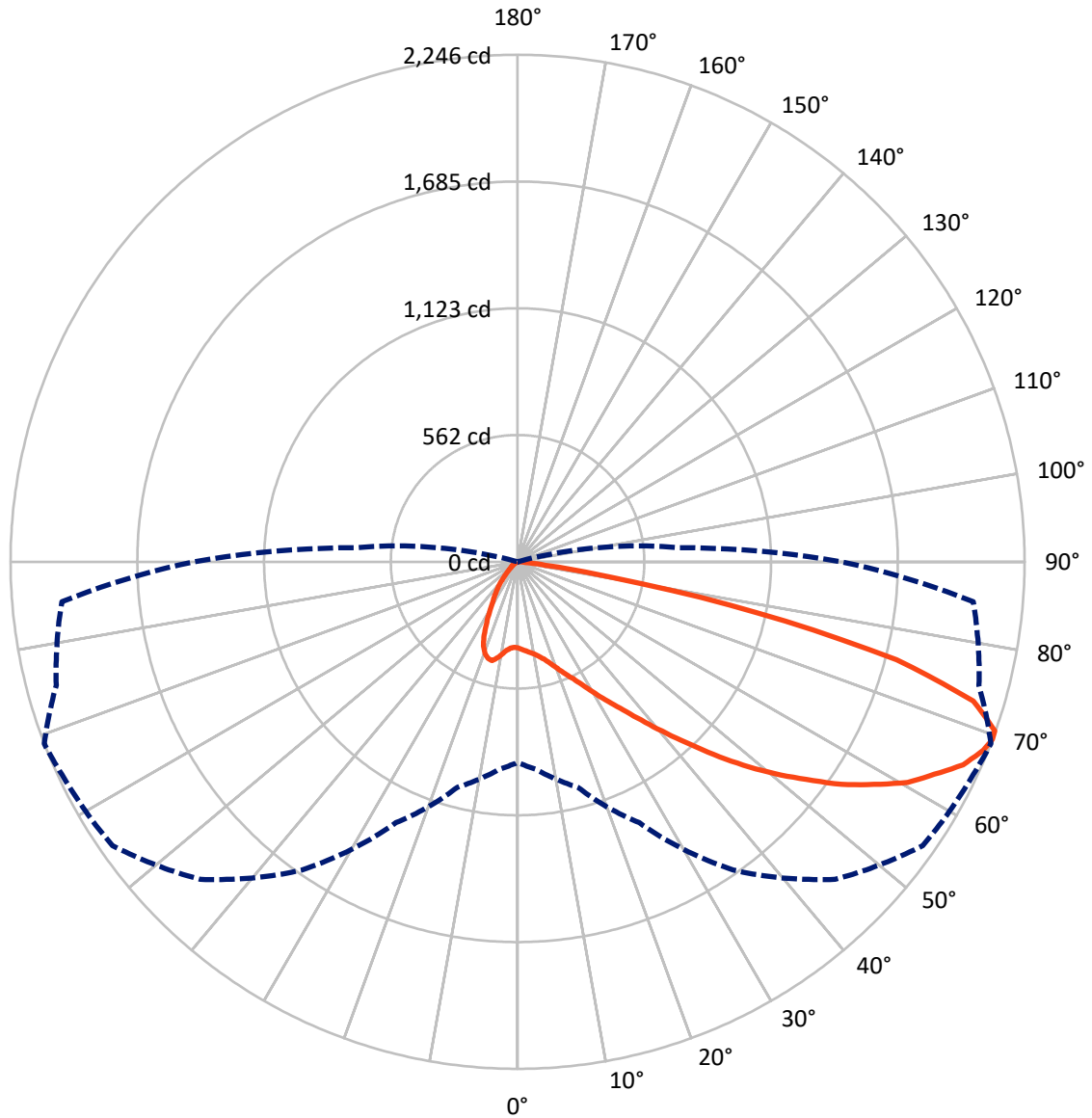
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.3 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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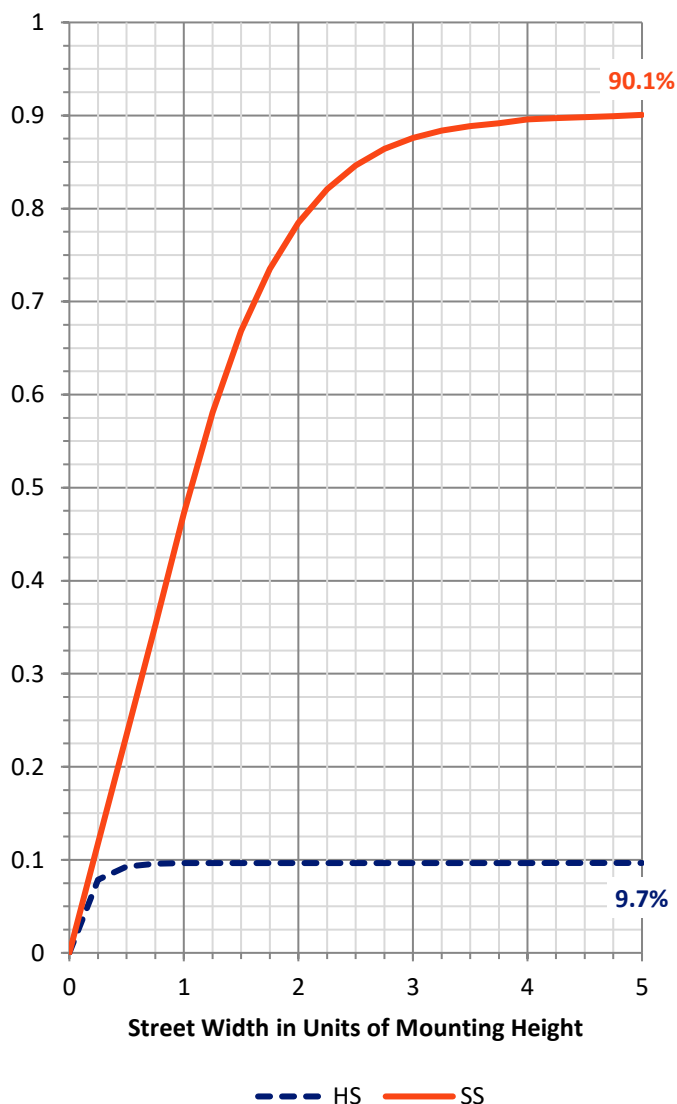
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	334.3	0.0	334.3
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	3096.7	0.0	3096.7
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	3431.0	0.0	3431.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.4	1.1
10°-20°	96.3	2.8
20°-30°	160.3	4.7
30°-40°	288.6	8.4
40°-50°	523.3	15.3
50°-60°	817.8	23.8
60°-70°	946.2	27.6
70°-80°	529.1	15.4
80°-90°	33.0	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°	3431.0	100.0
0°-180°	3431.0	100.0

**Coefficient of Utilization**

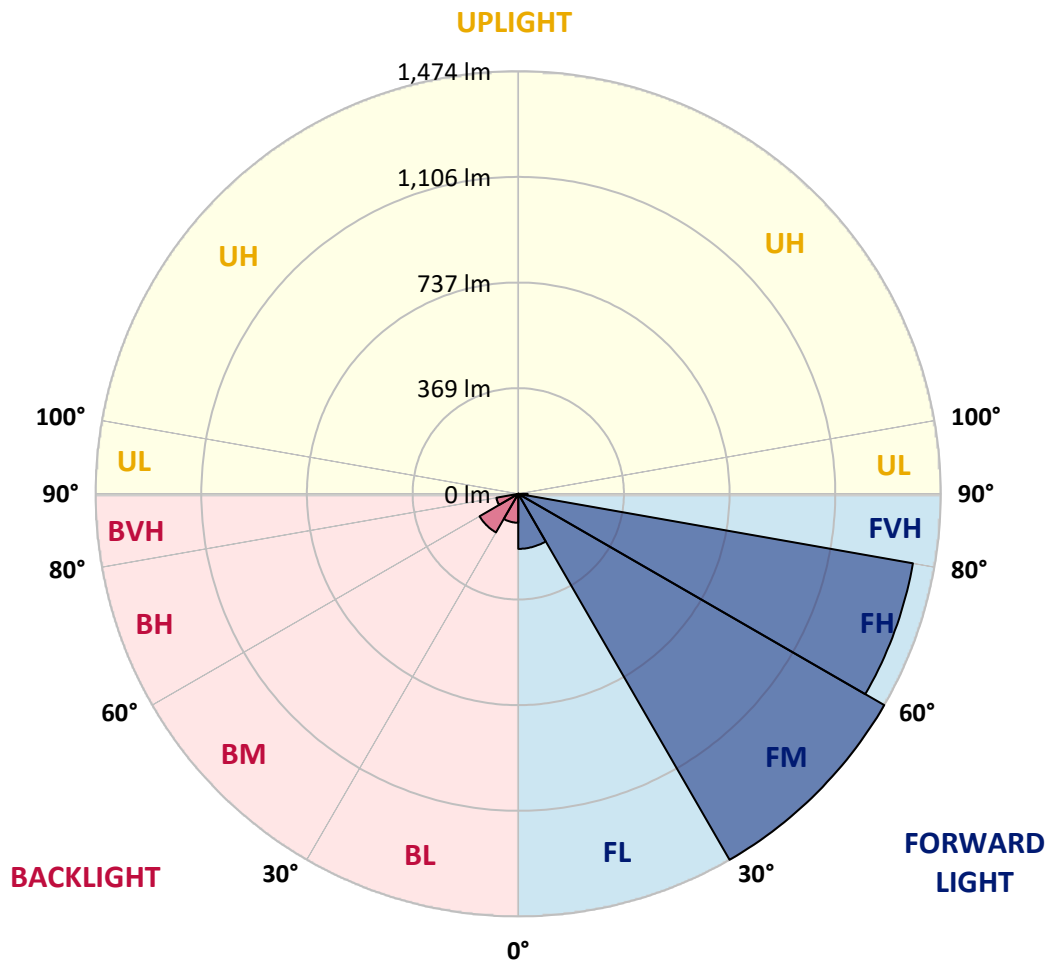


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.9	5.6			
FM (30°-60°)	1474.1	43.0			
FH (60°-80°)	1397.9	40.7			G1/1800
FVH (80°-90°)	32.8	1.0			G1/100
BL (0°-30°)	101.0	2.9	B0/110		
BM (30°-60°)	155.6	4.5	B0/220		
BH (60°-80°)	77.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.2	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°	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6
2.5°	395.4	395.4	395.4	393.1	394.2	393.1	391.9	388.5	389.6	388.5	385.1
5°	381.6	382.8	386.2	388.5	394.2	396.5	397.6	397.6	396.5	394.2	391.9
7.5°	355.4	355.4	358.8	365.6	377.1	389.6	399.9	405.6	406.8	406.8	403.4
10°	348.5	348.5	353.1	357.6	369.1	383.9	399.9	413.6	415.9	418.2	417.1
12.5°	345.1	346.2	350.8	358.8	373.6	387.4	404.5	423.9	430.8	436.5	437.6
15°	349.6	349.6	354.2	362.2	379.4	398.8	420.5	442.2	449.1	457.1	462.8
17.5°	356.5	358.8	361.1	369.1	385.1	409.1	437.6	466.2	474.2	484.5	489.1
20°	367.9	367.9	370.2	377.1	394.2	422.8	462.8	497.1	503.9	510.8	516.5
22.5°	381.6	382.8	382.8	388.5	407.9	438.8	484.5	526.8	538.2	541.6	543.9
25°	422.8	420.5	412.5	409.1	423.9	457.1	510.8	562.2	574.8	578.2	573.6
27.5°	508.5	499.3	477.6	454.8	452.5	485.6	546.2	606.7	620.5	621.6	605.6
30°	615.9	617.0	581.6	532.5	499.3	516.5	585.0	662.7	676.4	670.7	645.6
32.5°	748.4	742.7	716.4	645.6	579.3	564.5	627.3	721.0	737.0	727.9	694.7
35°	861.6	865.0	833.0	770.1	686.7	638.7	678.7	786.1	805.6	789.6	748.4
37.5°	956.4	961.0	941.5	890.1	815.8	740.4	746.1	862.7	889.0	873.0	821.6
40°	1061.5	1064.9	1056.9	1001.0	934.7	861.6	836.4	950.7	986.1	964.4	910.7
42.5°	1176.9	1189.5	1175.8	1131.2	1062.7	999.8	962.1	1058.1	1093.5	1079.8	1007.8
45°	1334.6	1335.8	1319.8	1275.2	1204.3	1152.9	1107.2	1172.4	1218.1	1200.9	1116.4
47.5°	1451.2	1459.2	1450.0	1419.2	1362.0	1327.8	1264.9	1298.0	1346.0	1324.3	1228.3
50°	1540.3	1562.0	1554.0	1563.1	1534.6	1519.7	1423.7	1428.3	1475.2	1456.9	1342.6
52.5°	1589.4	1616.8	1619.1	1666.0	1690.0	1726.5	1578.0	1571.1	1600.8	1584.8	1459.2
55°	1582.6	1589.4	1646.6	1732.3	1825.9	1909.4	1728.8	1700.3	1741.4	1696.8	1582.6
57.5°	1516.3	1533.4	1634.0	1740.2	1905.9	2027.1	1859.1	1827.1	1861.4	1802.0	1709.4
60°	1421.5	1446.6	1575.7	1727.7	1952.8	2097.9	1985.9	1953.9	1984.8	1912.8	1853.4
62.5°	1335.8	1347.2	1466.0	1675.1	1925.4	2094.5	2084.2	2054.5	2072.8	1997.3	1976.8
65°	1213.5	1218.1	1335.8	1580.3	1864.8	2071.6	2137.9	2149.3	2168.7	2068.2	2064.8
67.5°	1025.0	1035.2	1151.8	1414.6	1764.2	2027.1	2180.2	2203.0	2225.9	2105.9	2080.8
69°	889.0	922.1	1034.1	1275.2	1667.1	1989.3	2191.6	2228.2	2246.4	2116.2	2027.1
70°	778.1	806.7	935.8	1167.8	1581.4	1947.1	2199.6	2224.7	2243.0	2094.5	1939.1
72.5°	390.8	427.3	604.5	852.4	1256.9	1754.0	2158.5	2131.0	2111.6	1926.5	1568.9
75°	150.8	156.5	259.4	485.6	786.1	1287.8	1843.1	1791.7	1734.5	1461.4	930.1
77.5°	83.4	82.3	113.1	214.8	334.8	629.6	1246.6	1164.4	1085.5	785.0	377.1
80°	35.4	37.7	49.1	102.8	176.0	218.2	605.6	538.2	428.5	249.1	90.3
82.5°	21.7	22.9	34.3	62.8	122.3	83.4	196.5	168.0	123.4	67.4	21.7
85°	6.9	8.0	24.0	42.3	59.4	34.3	44.6	38.8	34.3	28.6	6.9
87.5°	1.1	1.1	9.1	22.9	16.0	5.7	4.6	8.0	12.6	13.7	2.3
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°	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6	381.6
2.5°	383.9	381.6	379.4	378.2	378.2	375.9	374.8	373.6	373.6	372.5	372.5
5°	388.5	386.2	383.9	382.8	380.5	379.4	379.4	379.4	378.2	379.4	380.5
7.5°	399.9	396.5	395.4	394.2	394.2	390.8	385.1	370.2	355.4	350.8	346.2
10°	415.9	414.8	414.8	414.8	406.8	377.1	335.9	299.4	279.9	264.0	264.0
12.5°	438.8	438.8	437.6	434.2	393.1	321.1	257.1	202.2	170.3	152.0	154.3
15°	463.9	462.8	465.1	443.3	346.2	248.0	155.4	109.7	92.6	90.3	90.3
17.5°	490.2	492.5	490.2	419.4	284.5	153.1	92.6	83.4	81.1	81.1	81.1
20°	517.6	515.3	511.9	378.2	206.8	96.0	80.0	77.7	75.4	74.3	74.3
22.5°	545.0	542.8	519.9	325.7	129.1	78.8	75.4	70.8	67.4	66.3	66.3
25°	571.3	571.3	505.0	258.2	88.0	74.3	68.6	64.0	60.6	57.1	57.1
27.5°	604.5	606.7	481.1	180.5	74.3	68.6	61.7	54.8	50.3	48.0	48.0
30°	642.2	645.6	442.2	117.7	67.4	60.6	53.7	45.7	38.8	36.6	35.4
32.5°	686.7	690.2	397.6	77.7	60.6	52.6	44.6	34.3	27.4	26.3	25.1
35°	743.9	735.9	343.9	61.7	52.6	44.6	34.3	24.0	19.4	18.3	18.3
37.5°	814.7	797.6	282.2	53.7	44.6	35.4	25.1	16.0	12.6	12.6	11.4
40°	895.8	847.8	218.2	48.0	37.7	27.4	16.0	10.3	8.0	8.0	8.0
42.5°	985.0	890.1	155.4	42.3	30.9	19.4	10.3	5.7	4.6	4.6	4.6
45°	1087.8	929.0	106.3	36.6	26.3	13.7	5.7	2.3	2.3	2.3	2.3
47.5°	1190.6	954.1	70.8	32.0	19.4	8.0	3.4	1.1	1.1	1.1	1.1
50°	1294.6	973.5	54.8	27.4	13.7	4.6	1.1	0.0	0.0	0.0	0.0
52.5°	1387.2	987.2	44.6	22.9	9.1	3.4	1.1	0.0	0.0	0.0	0.0
55°	1467.2	988.4	38.8	18.3	6.9	2.3	0.0	0.0	0.0	0.0	0.0
57.5°	1548.3	979.2	33.1	13.7	4.6	1.1	0.0	0.0	0.0	0.0	0.0
60°	1597.4	955.3	26.3	10.3	3.4	1.1	0.0	0.0	0.0	0.0	0.0
62.5°	1627.1	915.3	20.6	6.9	2.3	1.1	0.0	0.0	0.0	0.0	0.0
65°	1610.0	865.0	14.9	4.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	1530.0	787.3	10.3	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0
69°	1435.2	716.4	9.1	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	1351.7	661.6	8.0	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1006.7	426.2	6.9	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	565.6	142.8	4.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	212.5	36.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	46.8	9.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)