

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: P595048

Luminaire Tested: **IST-PA1B-735-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595048  
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: IST-PA1B-735-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 450mA 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: 3399 lumens  
Efficiency: N/A  
Efficacy: 93.4 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

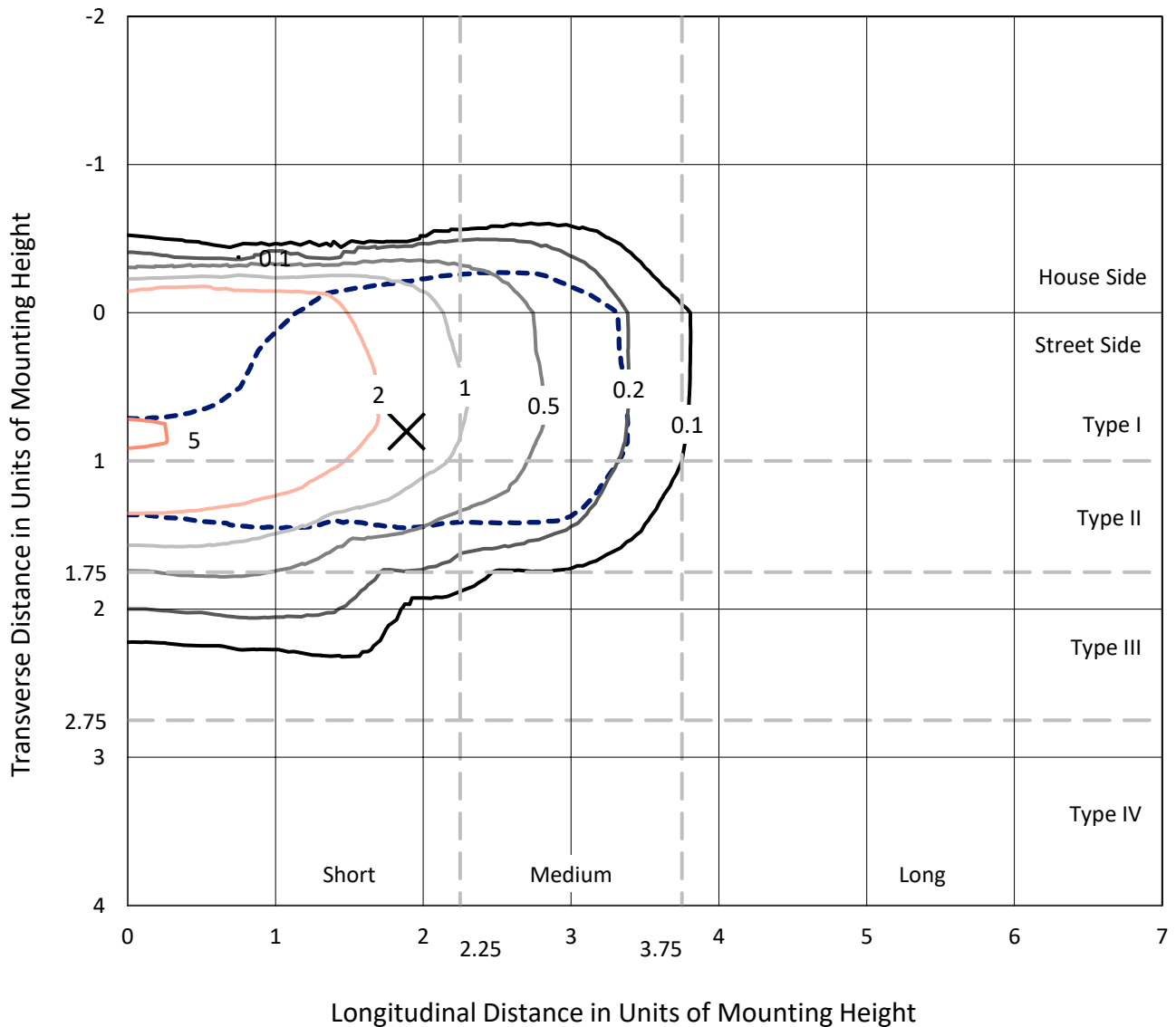
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

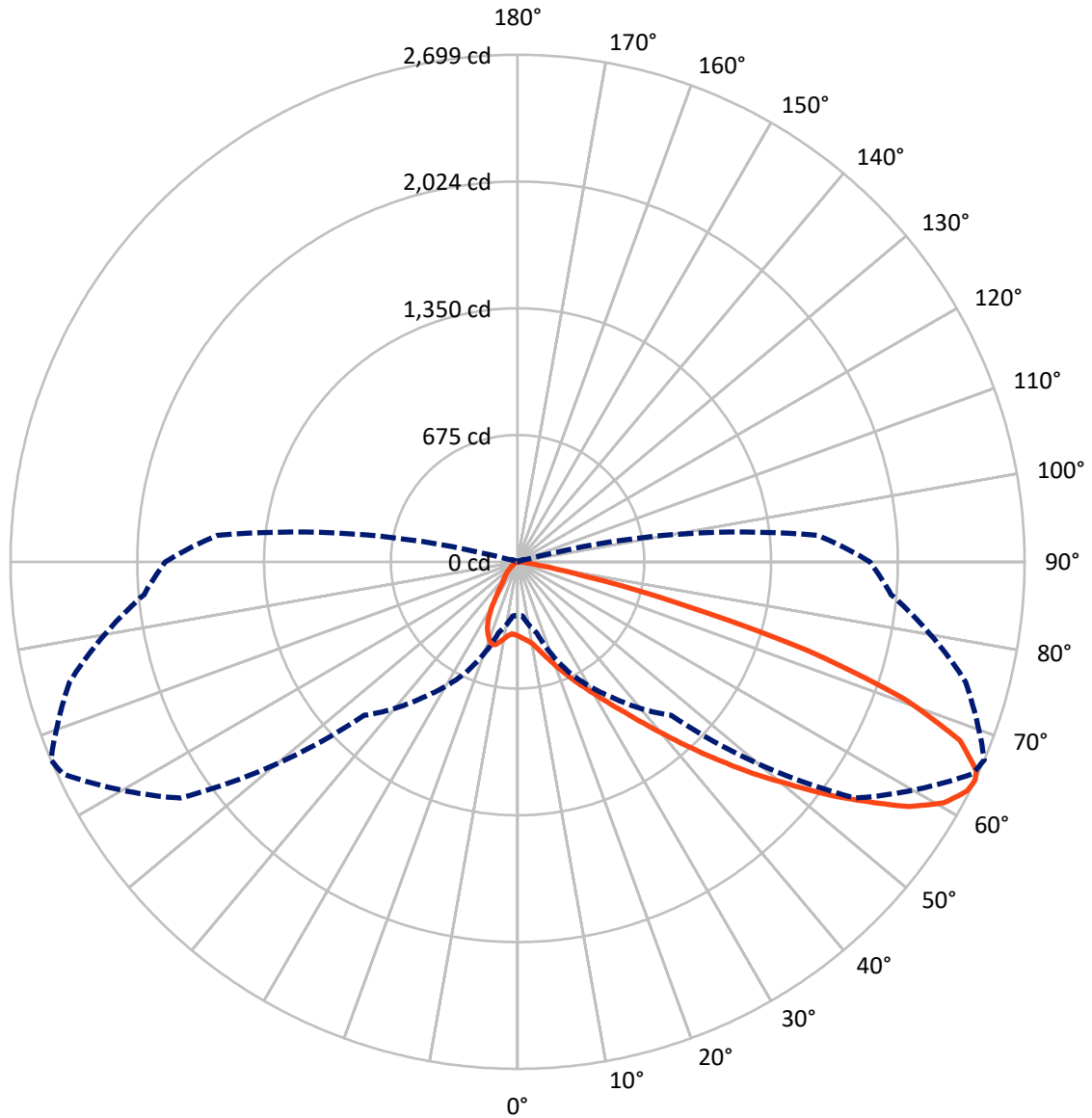
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.2 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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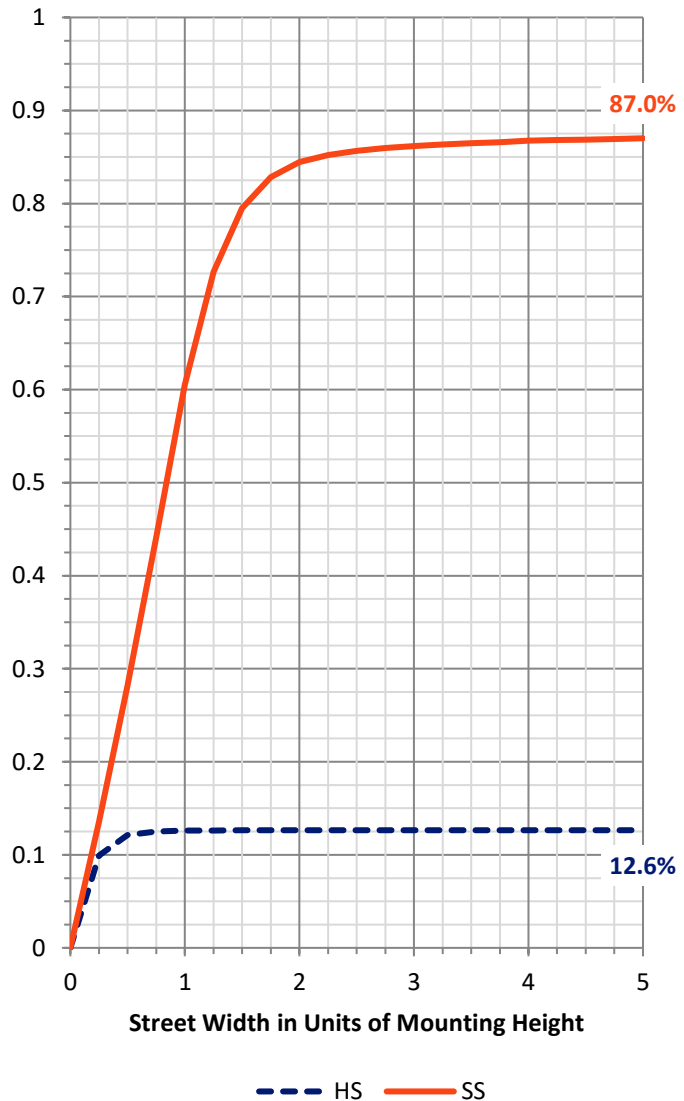
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	434.8	0.0	434.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2964.2	0.0	2964.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3399.0	0.0	3399.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.5	1.1
10°-20°	110.6	3.3
20°-30°	200.6	5.9
30°-40°	384.3	11.3
40°-50°	708.4	20.8
50°-60°	914.9	26.9
60°-70°	749.4	22.0
70°-80°	275.5	8.1
80°-90°	17.8	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°	3399.0	100.0
0°-180°	3399.0	100.0

**Coefficient of Utilization**

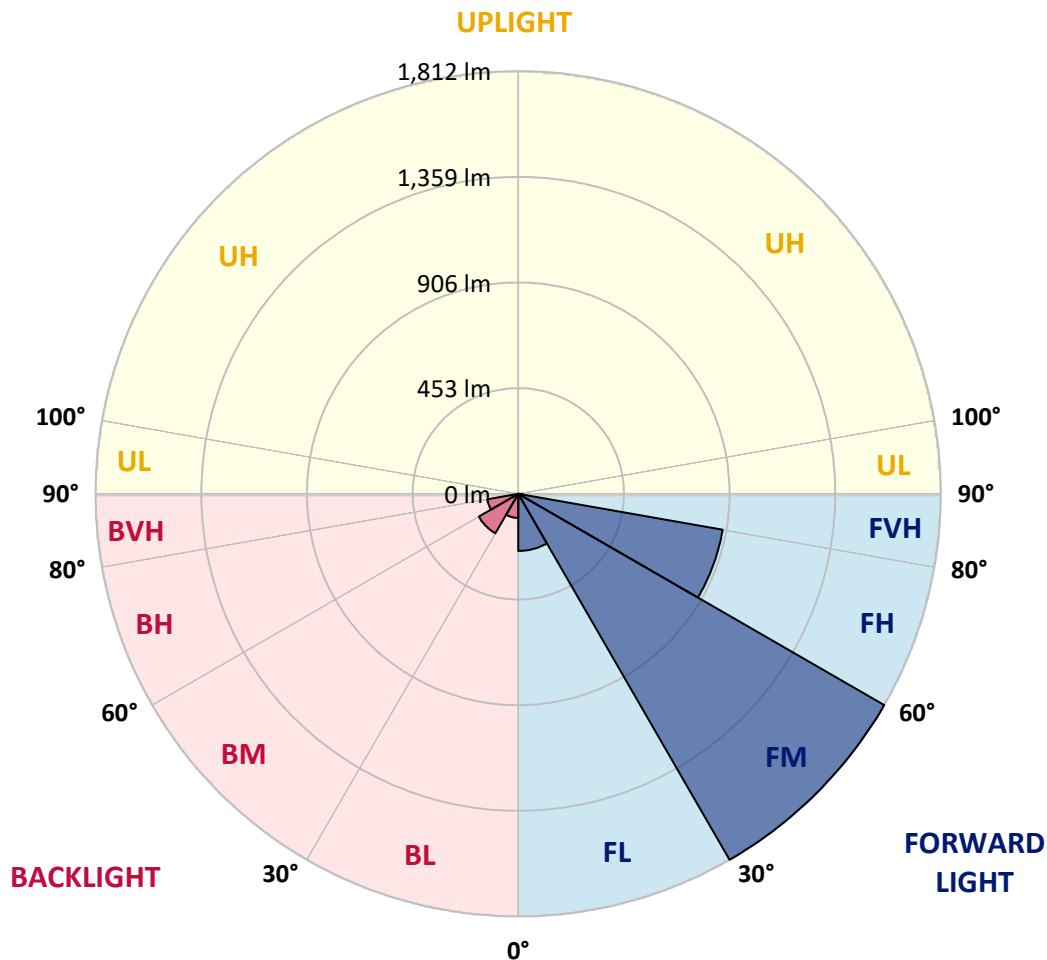


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.1	7.2			
FM (30°-60°)	1812.2	53.3			
FH (60°-80°)	890.0	26.2			G1/1800
FVH (80°-90°)	17.0	0.5			G1/100
BL (0°-30°)	103.6	3.0	B0/110		
BM (30°-60°)	195.5	5.8	B0/220		
BH (60°-80°)	134.9	4.0	B1/500		G1/500
BVH (80°-90°)	0.8	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°	394.9	394.9	394.9	394.9	394.9	394.9	394.9	394.9	394.9	394.9	394.9
2.5°	409.0	409.0	411.3	410.1	410.1	407.8	404.3	405.5	404.3	403.1	399.6
5°	402.0	403.1	404.3	406.6	411.3	413.6	413.6	414.8	414.8	413.6	409.0
7.5°	398.5	400.8	403.1	405.5	411.3	414.8	420.7	427.7	427.7	428.8	424.2
10°	411.3	413.6	417.1	420.7	426.5	432.3	437.0	445.2	445.2	447.5	446.4
12.5°	438.2	438.2	439.3	441.7	449.9	456.9	465.1	472.1	473.2	474.4	470.9
15°	470.9	470.9	472.1	472.1	476.7	487.3	502.4	509.5	508.3	507.1	500.1
17.5°	508.3	508.3	508.3	509.5	511.8	517.6	535.2	549.2	548.0	546.8	532.8
20°	543.3	545.7	548.0	549.2	551.5	556.2	574.9	591.3	594.8	590.1	565.5
22.5°	583.1	584.2	585.4	588.9	594.8	597.1	615.8	640.3	643.8	638.0	605.3
25°	622.8	625.1	628.6	633.3	639.2	650.8	663.7	696.4	699.9	692.9	648.5
27.5°	710.4	709.3	698.8	690.6	691.7	699.9	717.4	752.5	756.0	749.0	691.7
30°	860.0	846.0	826.1	789.9	754.8	758.3	782.9	816.8	822.6	813.3	739.6
32.5°	1072.7	1058.6	1009.6	930.1	853.0	827.3	858.8	891.6	898.6	888.0	795.7
35°	1279.5	1276.0	1229.2	1133.4	1002.6	931.3	939.5	981.5	983.9	971.0	865.8
37.5°	1535.4	1522.5	1458.3	1350.8	1196.5	1069.2	1045.8	1085.5	1091.4	1076.2	951.1
40°	1704.8	1700.1	1661.6	1585.6	1419.7	1259.6	1175.5	1214.1	1212.9	1190.7	1049.3
42.5°	1803.0	1805.3	1803.0	1766.7	1672.1	1488.6	1347.3	1349.6	1353.1	1329.7	1162.6
45°	1869.6	1869.6	1873.1	1902.3	1866.1	1762.1	1556.4	1503.8	1508.5	1472.3	1280.7
47.5°	1868.4	1875.4	1894.1	1961.9	2011.0	2016.8	1818.2	1683.8	1681.4	1626.5	1402.2
50°	1742.2	1737.5	1814.7	1966.6	2113.8	2227.1	2065.9	1874.2	1854.4	1786.6	1528.4
52.5°	1458.3	1473.5	1602.0	1825.2	2138.3	2369.7	2279.7	2082.2	2056.5	1945.5	1639.4
55°	1210.5	1226.9	1351.9	1570.4	2005.1	2419.9	2423.4	2303.1	2251.7	2083.4	1753.9
57.5°	909.1	940.6	1125.2	1330.9	1713.0	2294.9	2474.8	2514.6	2458.5	2216.6	1847.4
60°	580.7	599.4	806.3	1059.8	1388.2	1967.7	2464.3	2637.3	2606.9	2338.1	1925.7
62.5°	379.8	390.3	532.8	798.1	1057.5	1482.8	2339.3	2686.3	2686.3	2419.9	1984.1
64°	286.3	288.6	390.3	648.5	882.2	1155.6	2192.1	2671.2	2699.2	2469.0	1995.8
65°	226.7	227.9	305.0	538.7	792.2	947.6	2063.5	2638.4	2684.0	2487.7	2002.8
67.5°	158.9	162.4	197.5	310.8	567.9	546.8	1529.5	2484.2	2540.3	2493.5	1993.4
70°	137.9	142.6	165.9	203.3	405.5	317.8	813.3	2117.3	2183.9	2322.9	1855.5
72.5°	105.2	111.0	139.0	171.8	285.1	215.0	314.3	1503.8	1609.0	1796.0	1531.9
75°	76.0	78.3	102.8	140.2	199.8	165.9	135.5	775.9	882.2	1059.8	952.3
77.5°	47.9	51.4	70.1	105.2	178.8	126.2	80.6	282.8	356.4	461.6	416.0
80°	28.0	29.2	42.1	72.4	120.4	93.5	51.4	100.5	121.5	171.8	111.0
82.5°	16.4	17.5	26.9	49.1	78.3	72.4	32.7	51.4	57.3	65.4	23.4
85°	5.8	5.8	18.7	29.2	42.1	36.2	18.7	26.9	29.2	36.2	7.0
87.5°	1.2	1.2	9.3	15.2	15.2	5.8	9.3	11.7	14.0	19.9	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°	394.9	394.9	394.9	394.9	394.9	394.9	394.9	394.9	394.9	394.9	394.9
2.5°	398.5	394.9	391.4	386.8	383.3	376.3	372.7	368.1	366.9	364.6	363.4
5°	407.8	402.0	393.8	382.1	375.1	364.6	357.6	350.5	349.4	347.0	345.9
7.5°	420.7	414.8	404.3	391.4	379.8	369.2	361.1	350.5	340.0	331.8	331.8
10°	441.7	434.7	420.7	409.0	394.9	372.7	334.2	299.1	276.9	262.9	258.2
12.5°	467.4	458.0	442.9	428.8	402.0	331.8	272.3	226.7	189.3	171.8	168.3
15°	494.3	486.1	470.9	449.9	369.2	276.9	198.6	128.5	92.3	76.0	78.3
17.5°	523.5	511.8	494.3	452.2	324.8	206.8	106.3	65.4	56.1	53.8	53.8
20°	553.9	538.7	521.1	426.5	267.6	119.2	60.8	49.1	45.6	42.1	43.2
22.5°	586.6	567.9	541.0	387.9	191.6	64.3	46.7	39.7	35.1	33.9	33.9
25°	621.6	594.8	560.9	343.5	111.0	49.1	38.6	31.5	28.0	26.9	25.7
27.5°	659.0	625.1	565.5	285.1	63.1	40.9	30.4	24.5	21.0	19.9	19.9
30°	692.9	655.5	555.0	211.5	47.9	33.9	24.5	18.7	16.4	16.4	16.4
32.5°	738.5	689.4	522.3	132.0	38.6	26.9	18.7	15.2	12.9	12.9	12.9
35°	798.1	739.6	489.6	70.1	31.5	22.2	15.2	11.7	10.5	10.5	10.5
37.5°	879.9	806.3	460.4	44.4	25.7	17.5	11.7	9.3	8.2	8.2	8.2
40°	964.0	885.7	419.5	33.9	21.0	14.0	9.3	7.0	5.8	5.8	7.0
42.5°	1069.2	978.0	372.7	29.2	17.5	11.7	7.0	4.7	3.5	4.7	4.7
45°	1175.5	1075.0	307.3	24.5	15.2	9.3	4.7	2.3	2.3	3.5	3.5
47.5°	1285.3	1177.8	238.4	21.0	12.9	7.0	3.5	1.2	1.2	2.3	2.3
50°	1398.7	1279.5	177.6	18.7	10.5	5.8	2.3	1.2	0.0	1.2	1.2
52.5°	1512.0	1377.6	137.9	16.4	9.3	4.7	1.2	0.0	0.0	0.0	1.2
55°	1617.2	1466.4	109.8	14.0	8.2	3.5	1.2	0.0	0.0	0.0	0.0
57.5°	1706.0	1531.9	87.6	12.9	7.0	2.3	1.2	0.0	0.0	0.0	0.0
60°	1790.1	1583.3	67.8	10.5	5.8	2.3	1.2	0.0	0.0	0.0	0.0
62.5°	1849.7	1603.2	54.9	9.3	4.7	2.3	0.0	0.0	0.0	0.0	0.0
64°	1875.4	1605.5	47.9	8.2	4.7	2.3	1.2	0.0	0.0	0.0	0.0
65°	1890.6	1598.5	44.4	8.2	4.7	2.3	1.2	0.0	0.0	0.0	0.0
67.5°	1894.1	1559.9	33.9	7.0	3.5	1.2	1.2	0.0	0.0	0.0	0.0
70°	1791.3	1425.5	24.5	4.7	2.3	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1496.8	1089.0	16.4	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
75°	934.8	470.9	9.3	3.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	386.8	142.6	5.8	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	88.8	33.9	2.3	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	21.0	5.8	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	4.7	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.2	1.2	1.2	1.2	1.2	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)