

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: P595030

Luminaire Tested: **IST-PA1B-727-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595030  
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-727-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 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: 3052 lumens  
Efficiency: N/A  
Efficacy: 83.8 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

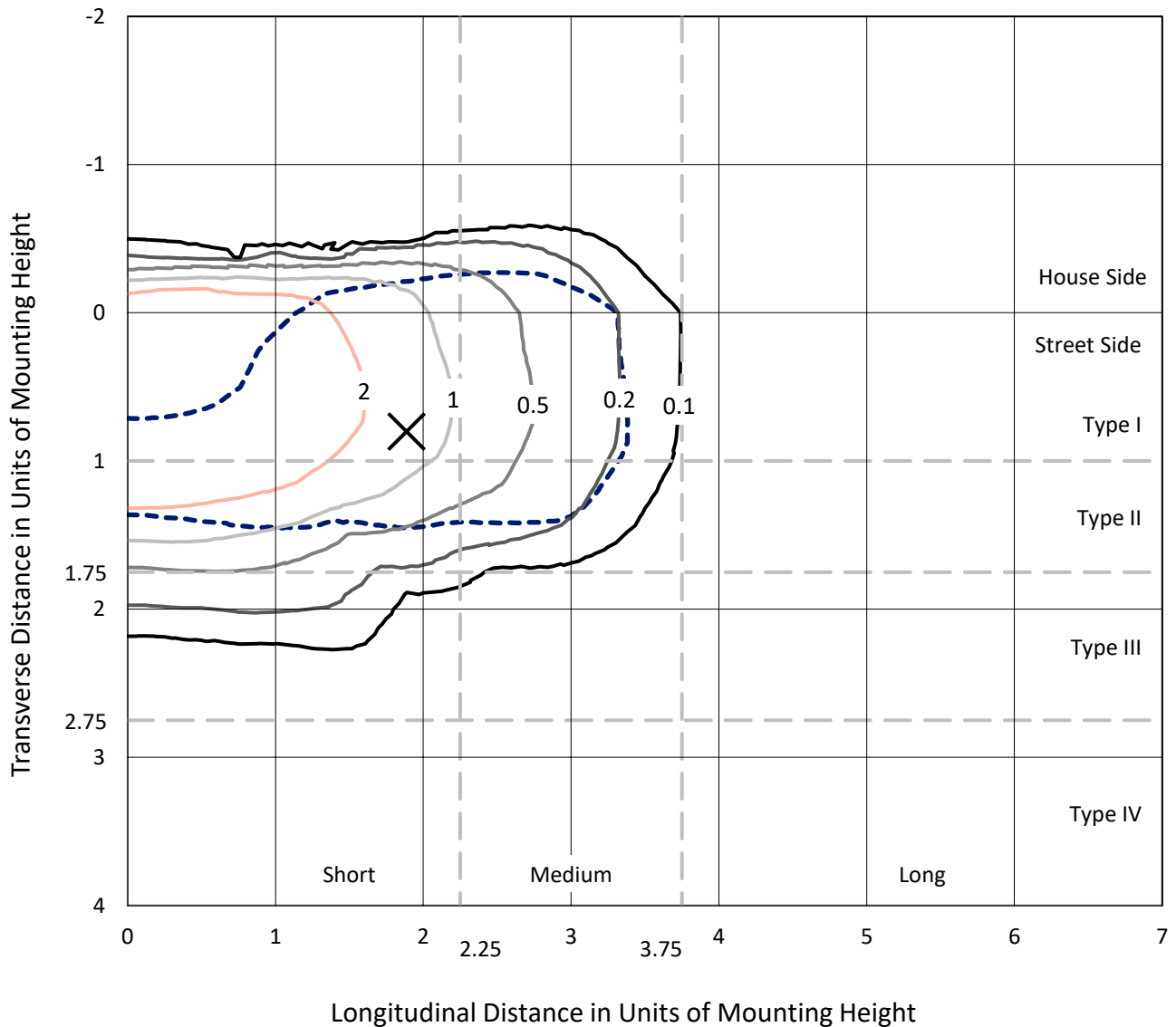
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

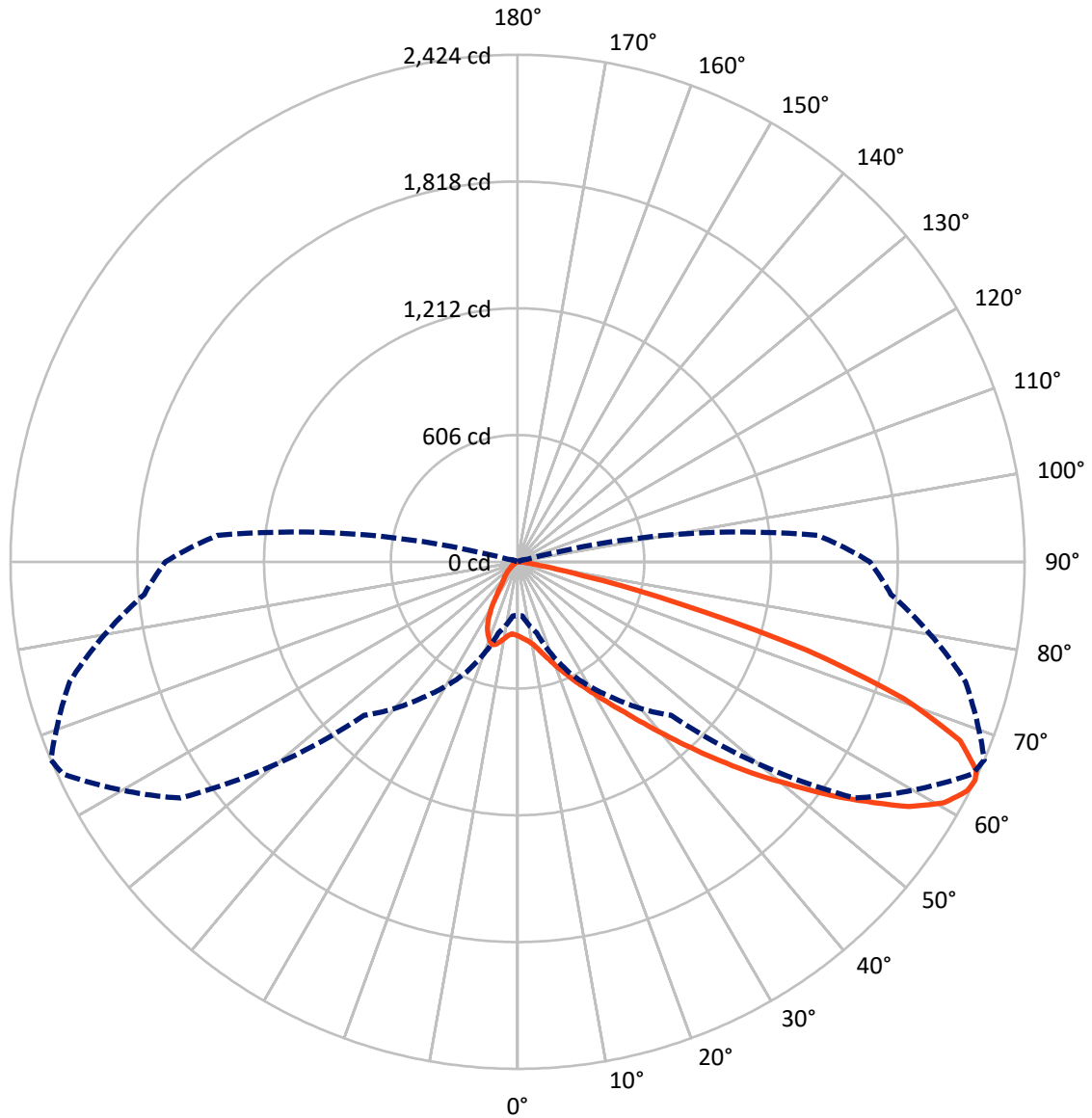
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 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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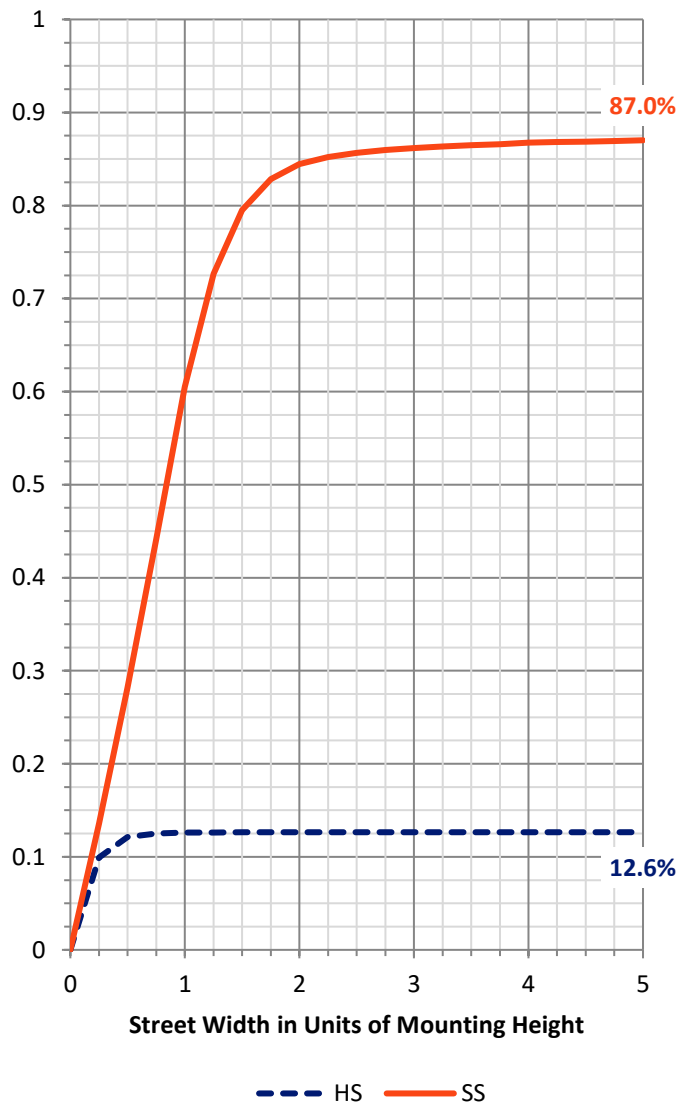
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	390.4	0.0	390.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2661.6	0.0	2661.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3052.0	0.0	3052.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.6	1.1
10°-20°	99.3	3.3
20°-30°	180.1	5.9
30°-40°	345.1	11.3
40°-50°	636.1	20.8
50°-60°	821.5	26.9
60°-70°	672.9	22.0
70°-80°	247.4	8.1
80°-90°	15.9	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°	3052.0	100.0
0°-180°	3052.0	100.0

**Coefficient of Utilization**

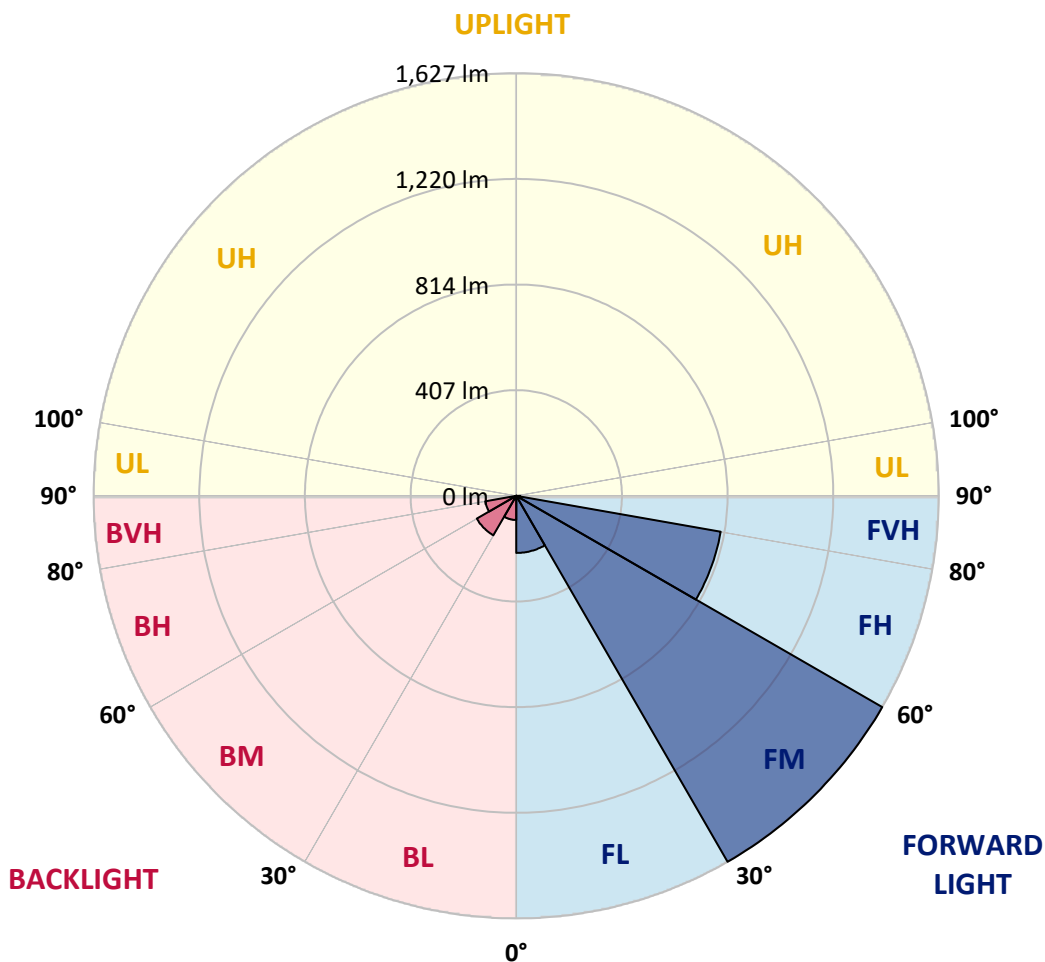


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.0	7.2			
FM (30°-60°)	1627.2	53.3			
FH (60°-80°)	799.1	26.2			G1/1800
FVH (80°-90°)	15.2	0.5			G1/100
BL (0°-30°)	93.0	3.0	B0/110		
BM (30°-60°)	175.5	5.8	B0/220		
BH (60°-80°)	121.1	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°	354.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6
2.5°	367.2	367.2	369.3	368.3	368.3	366.2	363.0	364.1	363.0	362.0	358.8
5°	360.9	362.0	363.0	365.1	369.3	371.4	371.4	372.5	372.5	371.4	367.2
7.5°	357.8	359.9	362.0	364.1	369.3	372.5	377.7	384.0	384.0	385.1	380.9
10°	369.3	371.4	374.6	377.7	383.0	388.2	392.4	399.7	399.7	401.8	400.8
12.5°	393.4	393.4	394.5	396.6	403.9	410.2	417.6	423.9	424.9	426.0	422.8
15°	422.8	422.8	423.9	423.9	428.1	437.5	451.2	457.4	456.4	455.3	449.1
17.5°	456.4	456.4	456.4	457.4	459.5	464.8	480.5	493.1	492.1	491.0	478.4
20°	487.9	490.0	492.1	493.1	495.2	499.4	516.2	530.9	534.0	529.8	507.8
22.5°	523.5	524.6	525.6	528.8	534.0	536.1	552.9	575.0	578.1	572.9	543.5
25°	559.2	561.3	564.5	568.7	573.9	584.4	595.9	625.3	628.5	622.2	582.3
27.5°	637.9	636.9	627.4	620.1	621.1	628.5	644.2	675.7	678.8	672.5	621.1
30°	772.2	759.6	741.8	709.3	677.8	680.9	703.0	733.4	738.6	730.2	664.1
32.5°	963.2	950.6	906.5	835.2	765.9	742.8	771.2	800.5	806.8	797.4	714.5
35°	1148.9	1145.7	1103.8	1017.7	900.2	836.2	843.6	881.3	883.4	871.9	777.5
37.5°	1378.6	1367.1	1309.4	1212.9	1074.4	960.0	939.0	974.7	979.9	966.3	854.0
40°	1530.8	1526.6	1492.0	1423.8	1274.8	1131.0	1055.5	1090.1	1089.1	1069.1	942.2
42.5°	1618.9	1621.0	1618.9	1586.4	1501.4	1336.7	1209.7	1211.8	1215.0	1194.0	1043.9
45°	1678.7	1678.7	1681.9	1708.1	1675.6	1582.2	1397.5	1350.3	1354.5	1322.0	1149.9
47.5°	1677.7	1684.0	1700.7	1761.6	1805.7	1810.9	1632.5	1511.9	1509.8	1460.5	1259.0
50°	1564.3	1560.2	1629.4	1765.8	1898.0	1999.8	1855.0	1682.9	1665.1	1604.2	1372.3
52.5°	1309.4	1323.0	1438.4	1638.8	1920.0	2127.8	2047.0	1869.7	1846.6	1746.9	1472.0
55°	1087.0	1101.7	1213.9	1410.1	1800.4	2172.9	2176.0	2068.0	2021.8	1870.7	1574.8
57.5°	816.3	844.6	1010.4	1195.0	1538.1	2060.6	2222.2	2257.9	2207.5	1990.3	1658.8
60°	521.4	538.2	723.9	951.6	1246.4	1766.8	2212.7	2368.0	2340.8	2099.4	1729.1
62.5°	341.0	350.4	478.4	716.6	949.5	1331.4	2100.5	2412.1	2412.1	2172.9	1781.5
64°	257.1	259.2	350.4	582.3	792.1	1037.7	1968.3	2398.5	2423.6	2216.9	1792.0
65°	203.5	204.6	273.8	483.7	711.4	850.9	1852.9	2369.1	2410.0	2233.7	1798.3
67.5°	142.7	145.8	177.3	279.1	509.9	491.0	1373.4	2230.6	2280.9	2239.0	1789.9
70°	123.8	128.0	149.0	182.6	364.1	285.4	730.2	1901.1	1960.9	2085.8	1666.1
72.5°	94.4	99.7	124.9	154.2	256.0	193.1	282.2	1350.3	1444.7	1612.6	1375.5
75°	68.2	70.3	92.3	125.9	179.4	149.0	121.7	696.7	792.1	951.6	855.1
77.5°	43.0	46.2	63.0	94.4	160.5	113.3	72.4	253.9	320.0	414.4	373.5
80°	25.2	26.2	37.8	65.0	108.1	83.9	46.2	90.2	109.1	154.2	99.7
82.5°	14.7	15.7	24.1	44.1	70.3	65.0	29.4	46.2	51.4	58.8	21.0
85°	5.2	5.2	16.8	26.2	37.8	32.5	16.8	24.1	26.2	32.5	6.3
87.5°	1.0	1.0	8.4	13.6	13.6	5.2	8.4	10.5	12.6	17.8	2.1
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°	354.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6	354.6
2.5°	357.8	354.6	351.5	347.3	344.1	337.8	334.7	330.5	329.4	327.3	326.3
5°	366.2	360.9	353.6	343.1	336.8	327.3	321.1	314.8	313.7	311.6	310.6
7.5°	377.7	372.5	363.0	351.5	341.0	331.5	324.2	314.8	305.3	298.0	298.0
10°	396.6	390.3	377.7	367.2	354.6	334.7	300.1	268.6	248.7	236.1	231.9
12.5°	419.7	411.3	397.6	385.1	360.9	298.0	244.5	203.5	170.0	154.2	151.1
15°	443.8	436.5	422.8	403.9	331.5	248.7	178.4	115.4	82.9	68.2	70.3
17.5°	470.0	459.5	443.8	406.0	291.7	185.7	95.5	58.8	50.4	48.3	48.3
20°	497.3	483.7	467.9	383.0	240.3	107.0	54.6	44.1	40.9	37.8	38.8
22.5°	526.7	509.9	485.8	348.3	172.1	57.7	42.0	35.7	31.5	30.4	30.4
25°	558.2	534.0	503.6	308.5	99.7	44.1	34.6	28.3	25.2	24.1	23.1
27.5°	591.7	561.3	507.8	256.0	56.7	36.7	27.3	22.0	18.9	17.8	17.8
30°	622.2	588.6	498.4	189.9	43.0	30.4	22.0	16.8	14.7	14.7	14.7
32.5°	663.1	619.0	469.0	118.6	34.6	24.1	16.8	13.6	11.5	11.5	11.5
35°	716.6	664.1	439.6	63.0	28.3	19.9	13.6	10.5	9.4	9.4	9.4
37.5°	790.0	723.9	413.4	39.9	23.1	15.7	10.5	8.4	7.3	7.3	7.3
40°	865.6	795.3	376.7	30.4	18.9	12.6	8.4	6.3	5.2	5.2	6.3
42.5°	960.0	878.2	334.7	26.2	15.7	10.5	6.3	4.2	3.1	4.2	4.2
45°	1055.5	965.3	275.9	22.0	13.6	8.4	4.2	2.1	2.1	3.1	3.1
47.5°	1154.1	1057.6	214.0	18.9	11.5	6.3	3.1	1.0	1.0	2.1	2.1
50°	1255.9	1148.9	159.5	16.8	9.4	5.2	2.1	1.0	0.0	1.0	1.0
52.5°	1357.7	1237.0	123.8	14.7	8.4	4.2	1.0	0.0	0.0	0.0	1.0
55°	1452.1	1316.7	98.6	12.6	7.3	3.1	1.0	0.0	0.0	0.0	0.0
57.5°	1531.8	1375.5	78.7	11.5	6.3	2.1	1.0	0.0	0.0	0.0	0.0
60°	1607.4	1421.7	60.9	9.4	5.2	2.1	1.0	0.0	0.0	0.0	0.0
62.5°	1660.9	1439.5	49.3	8.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
64°	1684.0	1441.6	43.0	7.3	4.2	2.1	1.0	0.0	0.0	0.0	0.0
65°	1697.6	1435.3	39.9	7.3	4.2	2.1	1.0	0.0	0.0	0.0	0.0
67.5°	1700.7	1400.7	30.4	6.3	3.1	1.0	1.0	0.0	0.0	0.0	0.0
70°	1608.4	1280.0	22.0	4.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1344.0	977.8	14.7	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
75°	839.4	422.8	8.4	3.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	347.3	128.0	5.2	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	79.7	30.4	2.1	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.9	5.2	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)