

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: P595039

Luminaire Tested: **IST-PA1B-730-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595039  
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-730-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 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: 3323 lumens  
Efficiency: N/A  
Efficacy: 91.3 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

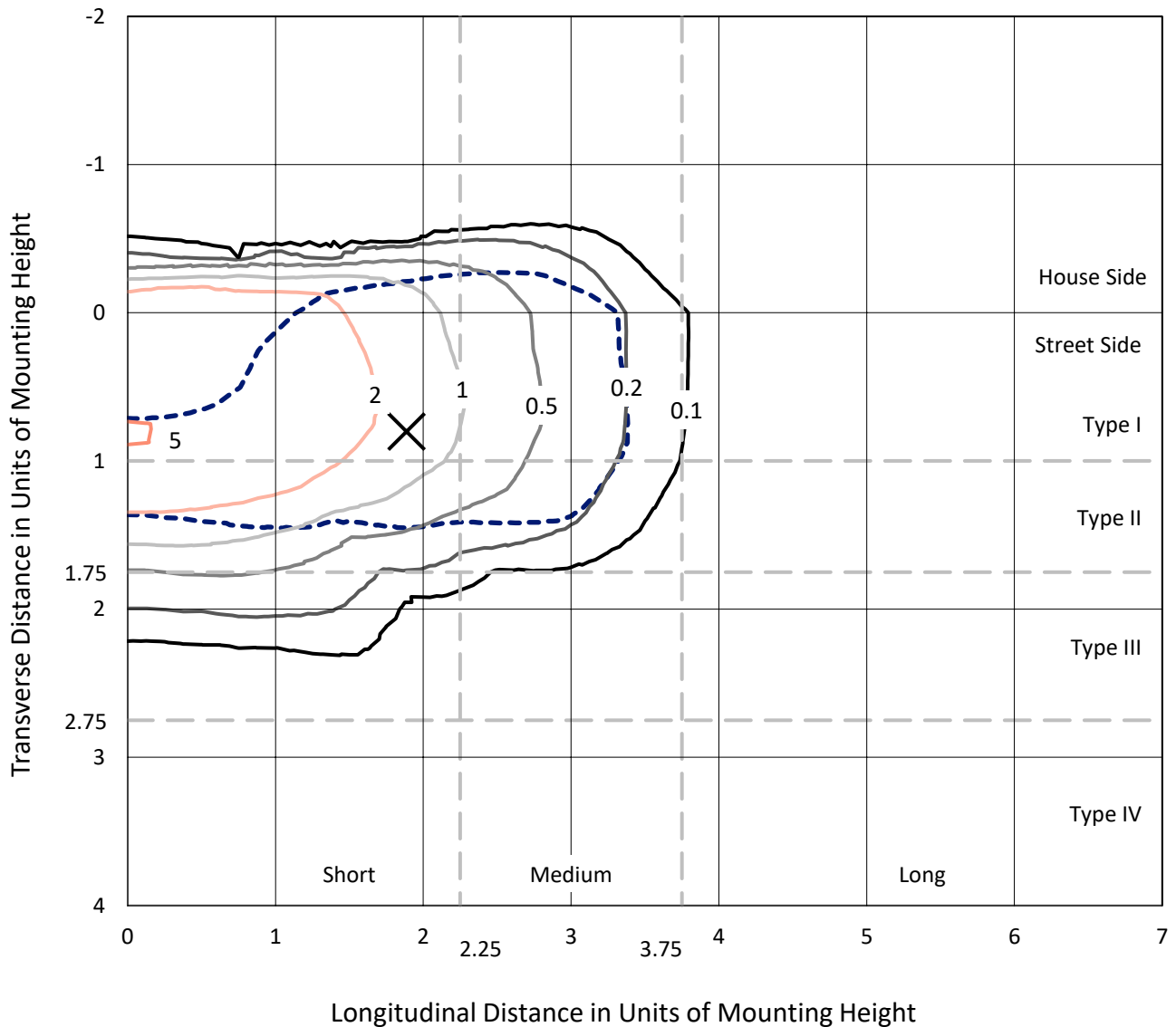
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

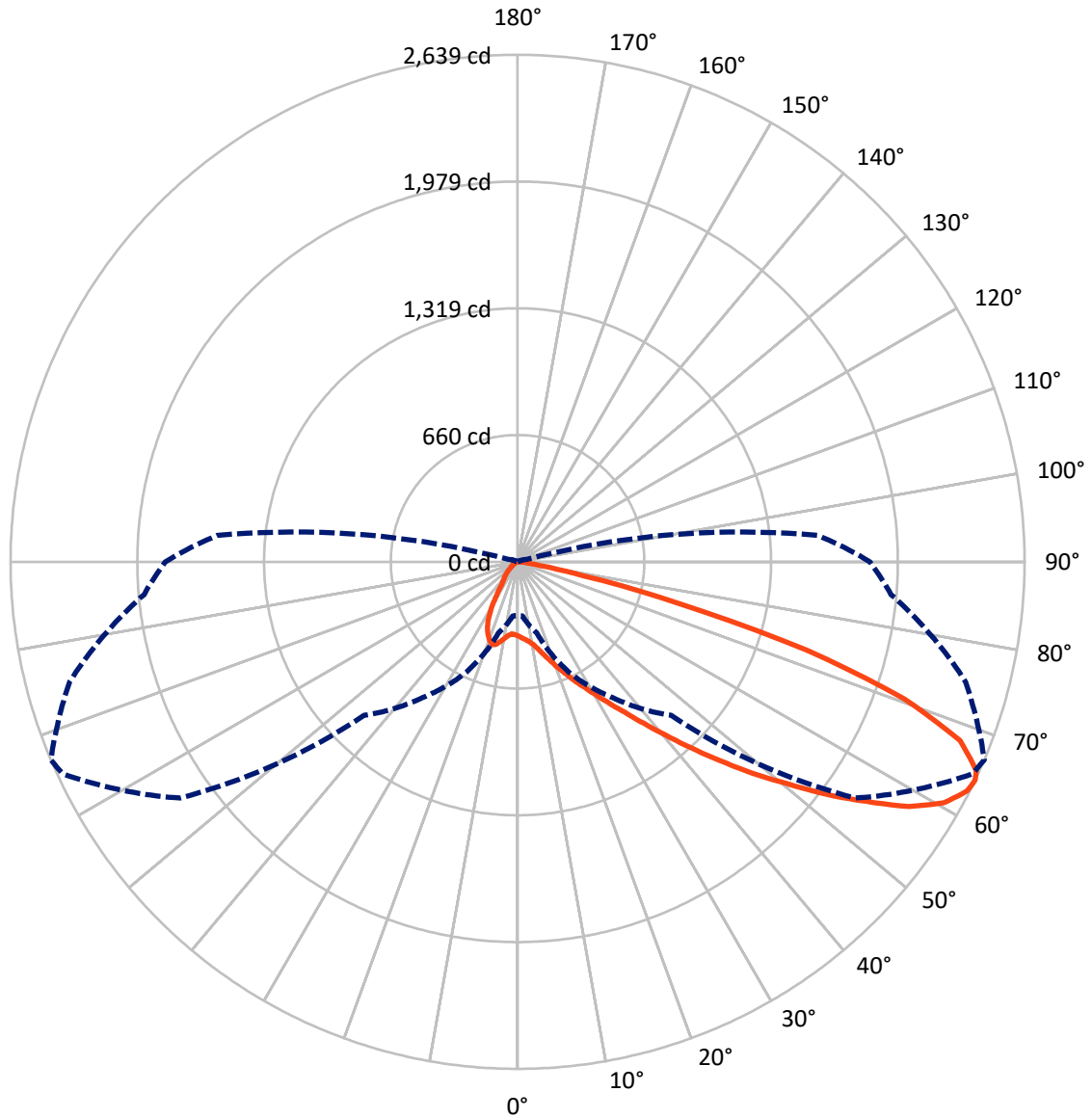
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.1 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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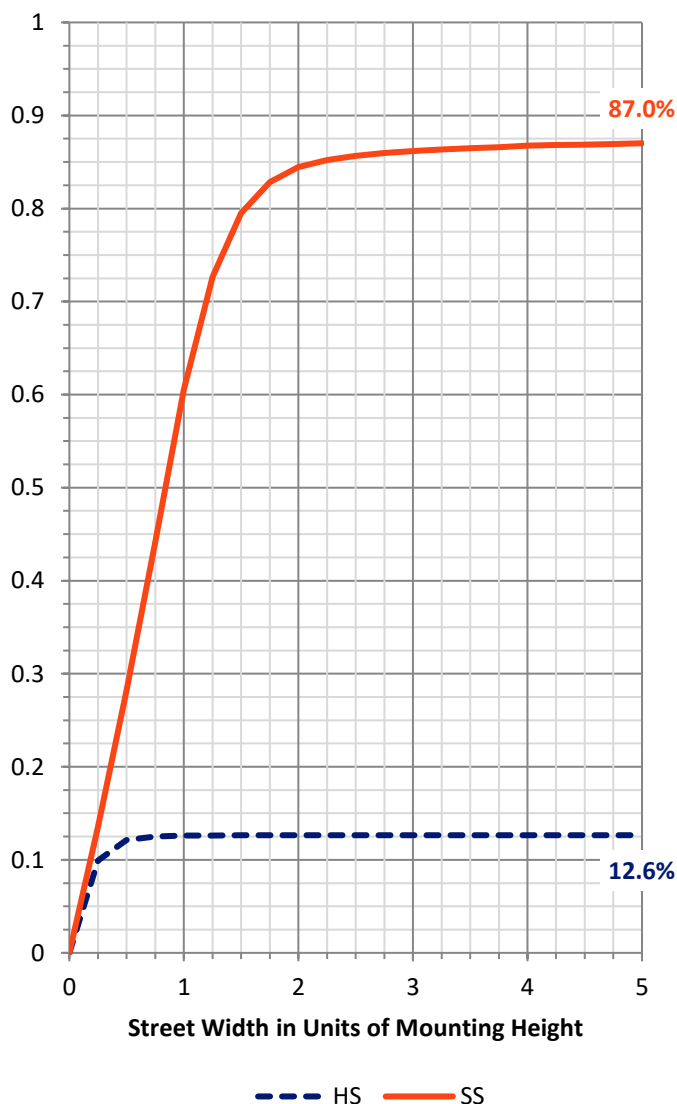
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	425.1	0.0	425.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2897.9	0.0	2897.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3323.0	0.0	3323.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.6	1.1
10°-20°	108.1	3.3
20°-30°	196.1	5.9
30°-40°	375.8	11.3
40°-50°	692.5	20.8
50°-60°	894.5	26.9
60°-70°	732.7	22.0
70°-80°	269.3	8.1
80°-90°	17.4	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°	3323.0	100.0
0°-180°	3323.0	100.0

**Coefficient of Utilization**



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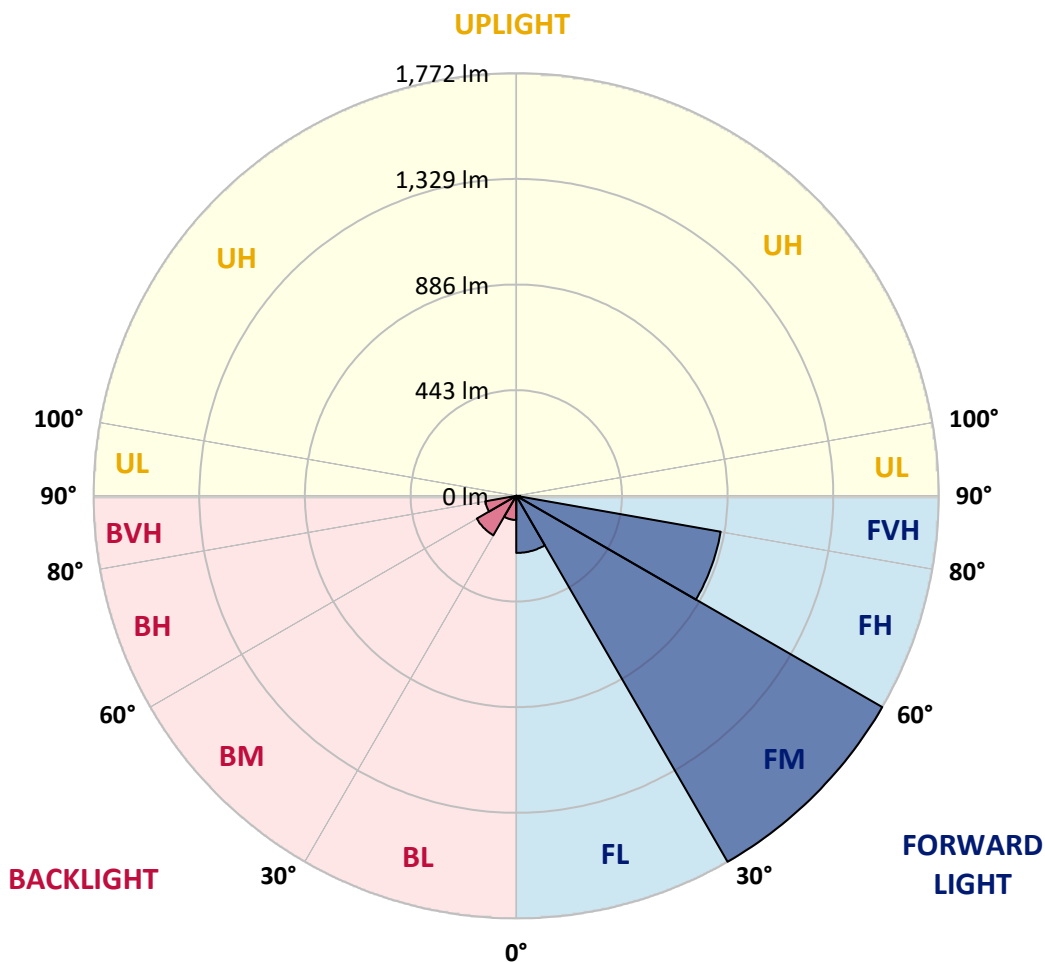
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.6	7.2			
FM (30°-60°)	1771.6	53.3			
FH (60°-80°)	870.1	26.2			G1/1800
FVH (80°-90°)	16.6	0.5			G1/100
BL (0°-30°)	101.3	3.0	B0/110		
BM (30°-60°)	191.1	5.8	B0/220		
BH (60°-80°)	131.9	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°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	399.8	399.8	402.1	401.0	401.0	398.7	395.3	396.4	395.3	394.1	390.7
5°	393.0	394.1	395.3	397.5	402.1	404.4	404.4	405.5	405.5	404.4	399.8
7.5°	389.5	391.8	394.1	396.4	402.1	405.5	411.2	418.1	418.1	419.2	414.7
10°	402.1	404.4	407.8	411.2	417.0	422.7	427.2	435.2	435.2	437.5	436.4
12.5°	428.4	428.4	429.5	431.8	439.8	446.7	454.7	461.5	462.7	463.8	460.4
15°	460.4	460.4	461.5	461.5	466.1	476.4	491.2	498.1	496.9	495.8	488.9
17.5°	496.9	496.9	496.9	498.1	500.4	506.1	523.2	536.9	535.8	534.6	520.9
20°	531.2	533.5	535.8	536.9	539.2	543.8	562.0	578.0	581.5	576.9	552.9
22.5°	570.0	571.2	572.3	575.7	581.5	583.7	602.0	626.0	629.4	623.7	591.7
25°	608.9	611.2	614.6	619.2	624.9	636.3	648.9	680.8	684.3	677.4	634.0
27.5°	694.6	693.4	683.1	675.1	676.3	684.3	701.4	735.7	739.1	732.2	676.3
30°	840.8	827.1	807.6	772.2	738.0	741.4	765.4	798.5	804.2	795.1	723.1
32.5°	1048.7	1035.0	987.0	909.3	833.9	808.8	839.6	871.6	878.5	868.2	777.9
35°	1250.9	1247.5	1201.8	1108.1	980.1	910.5	918.5	959.6	961.9	949.3	846.5
37.5°	1501.1	1488.5	1425.7	1320.6	1169.8	1045.3	1022.4	1061.2	1067.0	1052.1	929.9
40°	1666.7	1662.1	1624.4	1550.2	1388.0	1231.5	1149.2	1186.9	1185.8	1164.1	1025.8
42.5°	1762.7	1764.9	1762.7	1727.2	1634.7	1455.4	1317.1	1319.4	1322.8	1300.0	1136.6
45°	1827.8	1827.8	1831.2	1859.8	1824.3	1722.7	1521.6	1470.2	1474.8	1439.4	1252.0
47.5°	1826.6	1833.5	1851.8	1918.0	1966.0	1971.7	1777.5	1646.1	1643.8	1590.2	1370.8
50°	1703.3	1698.7	1774.1	1922.6	2066.5	2177.3	2019.7	1832.3	1812.9	1746.7	1494.2
52.5°	1425.7	1440.5	1566.2	1784.4	2090.5	2316.7	2228.7	2035.7	2010.5	1902.0	1602.7
55°	1183.5	1199.5	1321.7	1535.3	1960.3	2365.8	2369.2	2251.6	2201.3	2036.8	1714.7
57.5°	888.8	919.6	1100.1	1301.1	1674.7	2243.6	2419.5	2458.3	2403.5	2167.0	1806.1
60°	567.8	586.0	788.2	1036.1	1357.1	1923.7	2409.2	2578.3	2548.6	2285.9	1882.6
62.5°	371.3	381.5	520.9	780.2	1033.8	1449.6	2287.0	2626.3	2626.3	2365.8	1939.7
64°	279.9	282.2	381.5	634.0	862.5	1129.8	2143.1	2611.4	2638.8	2413.8	1951.1
65°	221.6	222.8	298.2	526.6	774.5	926.5	2017.4	2579.4	2624.0	2432.1	1958.0
67.5°	155.4	158.8	193.1	303.9	555.2	534.6	1495.3	2428.6	2483.5	2437.8	1948.9
70°	134.8	139.4	162.2	198.8	396.4	310.7	795.1	2069.9	2135.1	2271.0	1814.1
72.5°	102.8	108.5	135.9	167.9	278.7	210.2	307.3	1470.2	1573.0	1755.8	1497.6
75°	74.3	76.5	100.5	137.1	195.3	162.2	132.5	758.5	862.5	1036.1	931.0
77.5°	46.8	50.3	68.5	102.8	174.8	123.4	78.8	276.5	348.4	451.2	406.7
80°	27.4	28.6	41.1	70.8	117.7	91.4	50.3	98.2	118.8	167.9	108.5
82.5°	16.0	17.1	26.3	48.0	76.5	70.8	32.0	50.3	56.0	64.0	22.8
85°	5.7	5.7	18.3	28.6	41.1	35.4	18.3	26.3	28.6	35.4	6.9
87.5°	1.1	1.1	9.1	14.9	14.9	5.7	9.1	11.4	13.7	19.4	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°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	389.5	386.1	382.7	378.1	374.7	367.8	364.4	359.8	358.7	356.4	355.3
5°	398.7	393.0	385.0	373.6	366.7	356.4	349.6	342.7	341.6	339.3	338.1
7.5°	411.2	405.5	395.3	382.7	371.3	361.0	353.0	342.7	332.4	324.4	324.4
10°	431.8	425.0	411.2	399.8	386.1	364.4	326.7	292.4	270.7	257.0	252.5
12.5°	456.9	447.8	433.0	419.2	393.0	324.4	266.2	221.6	185.1	167.9	164.5
15°	483.2	475.2	460.4	439.8	361.0	270.7	194.2	125.7	90.2	74.3	76.5
17.5°	511.8	500.4	483.2	442.1	317.6	202.2	104.0	64.0	54.8	52.5	52.5
20°	541.5	526.6	509.5	417.0	261.6	116.5	59.4	48.0	44.6	41.1	42.3
22.5°	573.5	555.2	528.9	379.3	187.3	62.8	45.7	38.8	34.3	33.1	33.1
25°	607.7	581.5	548.3	335.9	108.5	48.0	37.7	30.8	27.4	26.3	25.1
27.5°	644.3	611.2	552.9	278.7	61.7	40.0	29.7	24.0	20.6	19.4	19.4
30°	677.4	640.9	542.6	206.8	46.8	33.1	24.0	18.3	16.0	16.0	16.0
32.5°	722.0	674.0	510.6	129.1	37.7	26.3	18.3	14.9	12.6	12.6	12.6
35°	780.2	723.1	478.6	68.5	30.8	21.7	14.9	11.4	10.3	10.3	10.3
37.5°	860.2	788.2	450.1	43.4	25.1	17.1	11.4	9.1	8.0	8.0	8.0
40°	942.4	865.9	410.1	33.1	20.6	13.7	9.1	6.9	5.7	5.7	6.9
42.5°	1045.3	956.2	364.4	28.6	17.1	11.4	6.9	4.6	3.4	4.6	4.6
45°	1149.2	1051.0	300.4	24.0	14.9	9.1	4.6	2.3	2.3	3.4	3.4
47.5°	1256.6	1151.5	233.0	20.6	12.6	6.9	3.4	1.1	1.1	2.3	2.3
50°	1367.4	1250.9	173.6	18.3	10.3	5.7	2.3	1.1	0.0	1.1	1.1
52.5°	1478.2	1346.8	134.8	16.0	9.1	4.6	1.1	0.0	0.0	0.0	1.1
55°	1581.0	1433.7	107.4	13.7	8.0	3.4	1.1	0.0	0.0	0.0	0.0
57.5°	1667.8	1497.6	85.7	12.6	6.9	2.3	1.1	0.0	0.0	0.0	0.0
60°	1750.1	1547.9	66.3	10.3	5.7	2.3	1.1	0.0	0.0	0.0	0.0
62.5°	1808.3	1567.3	53.7	9.1	4.6	2.3	0.0	0.0	0.0	0.0	0.0
64°	1833.5	1569.6	46.8	8.0	4.6	2.3	1.1	0.0	0.0	0.0	0.0
65°	1848.3	1562.7	43.4	8.0	4.6	2.3	1.1	0.0	0.0	0.0	0.0
67.5°	1851.8	1525.0	33.1	6.9	3.4	1.1	1.1	0.0	0.0	0.0	0.0
70°	1751.2	1393.7	24.0	4.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1463.4	1064.7	16.0	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	913.9	460.4	9.1	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	378.1	139.4	5.7	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	86.8	33.1	2.3	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	20.6	5.7	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	4.6	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.1	1.1	1.1	1.1	1.1	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)