

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: P595047

Luminaire Tested: **IST-PA1B-735-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595047  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
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-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4854 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

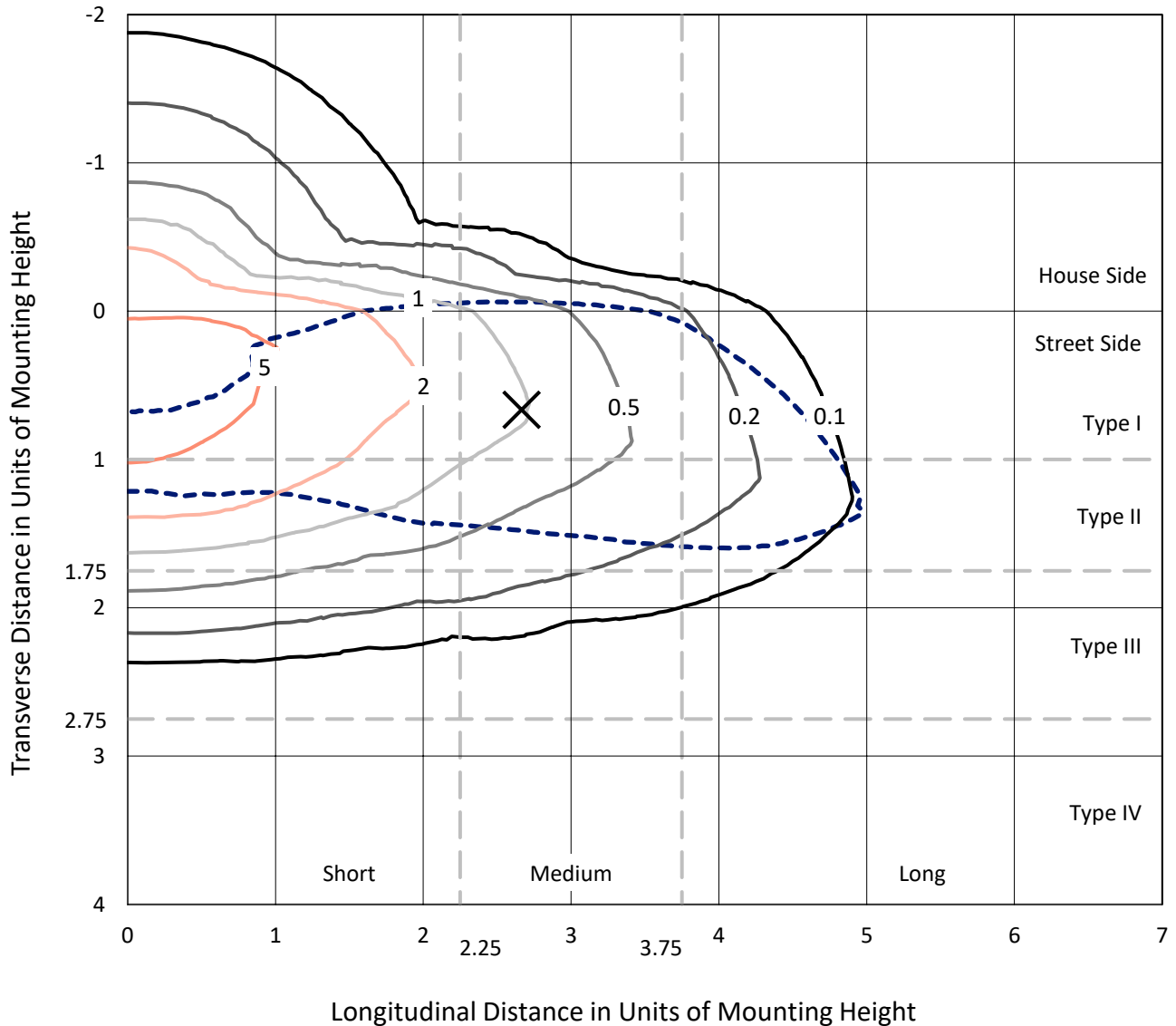
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

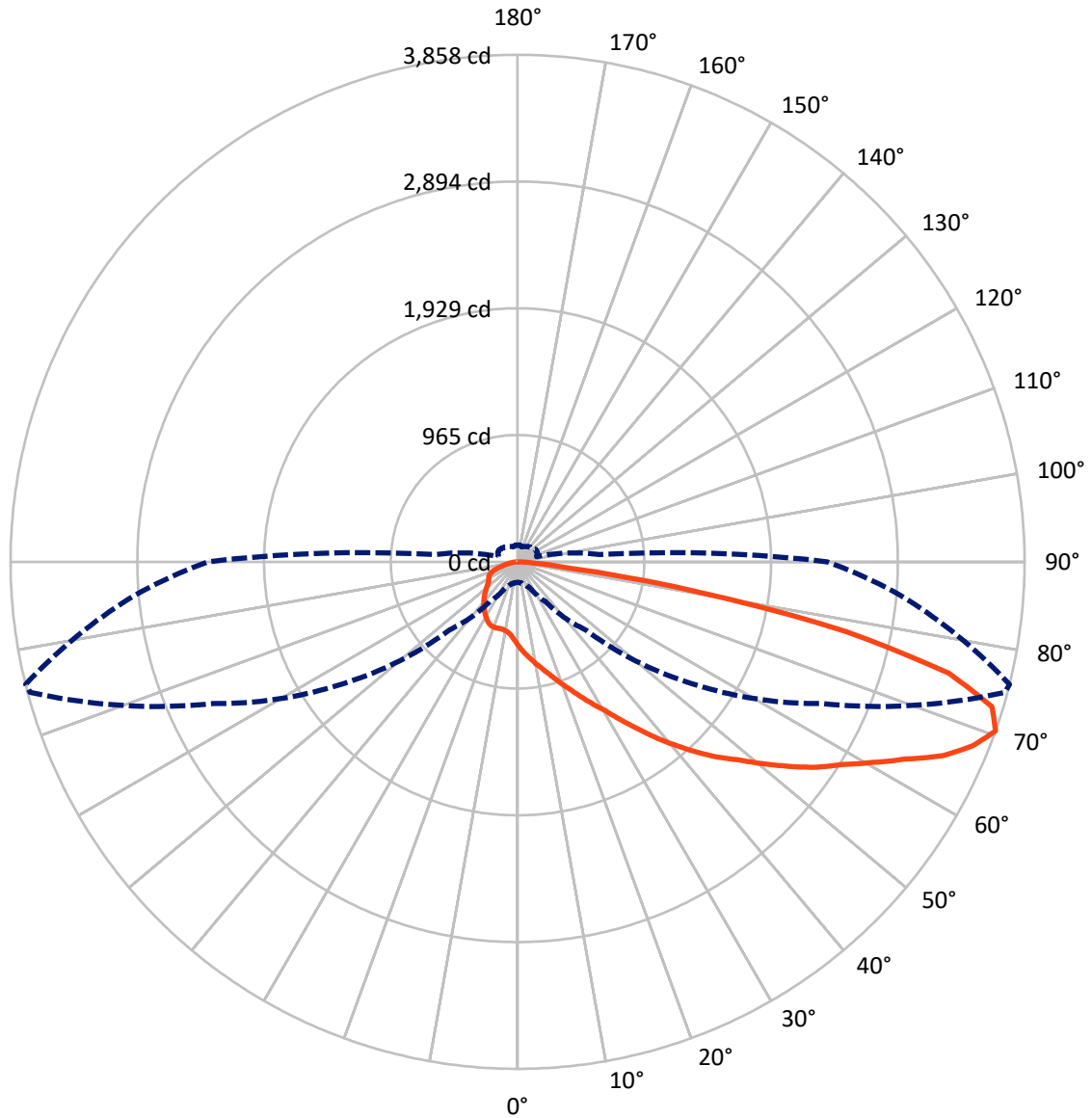
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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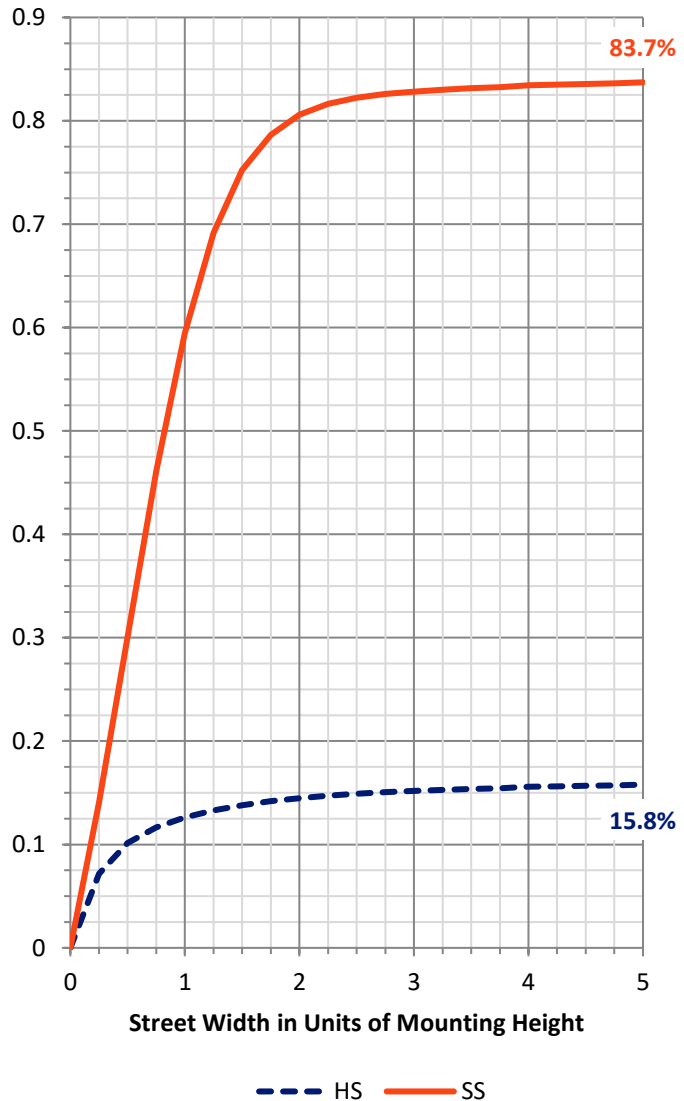
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	778.5	0.0	778.5
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	4075.5	0.0	4075.5
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	4854.0	0.0	4854.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	1.3
10°-20°	204.8	4.2
20°-30°	377.4	7.8
30°-40°	632.3	13.0
40°-50°	898.5	18.5
50°-60°	1037.4	21.4
60°-70°	953.7	19.6
70°-80°	601.3	12.4
80°-90°	86.5	1.8
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°	4854.0	100.0
0°-180°	4854.0	100.0

**Coefficient of Utilization**

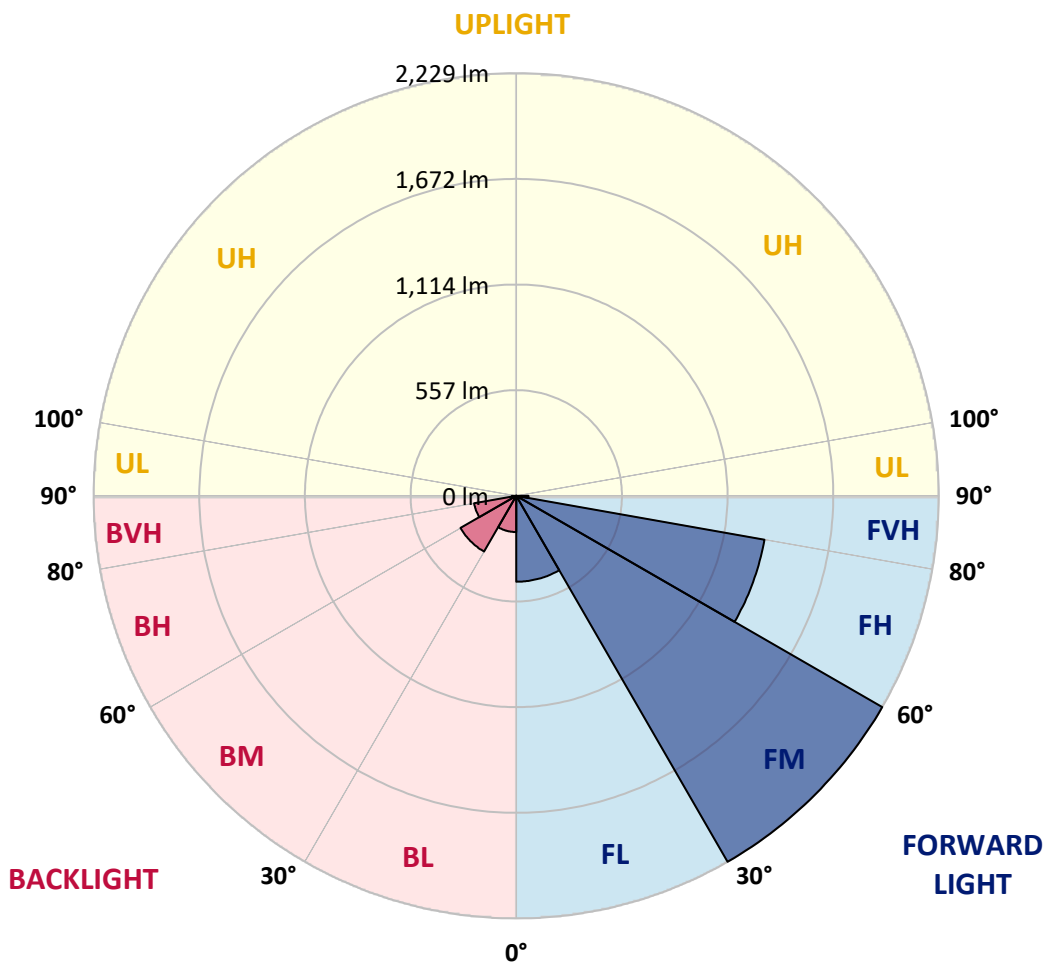


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.2	9.3			
FM (30°-60°)	2228.8	45.9			
FH (60°-80°)	1329.3	27.4			G1/1800
FVH (80°-90°)	64.1	1.3			G1/100
BL (0°-30°)	191.1	3.9	B1/500		
BM (30°-60°)	339.4	7.0	B1/1000		
BH (60°-80°)	225.6	4.6	B1/500		G1/500
BVH (80°-90°)	22.4	0.5			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
2.5°	766.5	765.3	761.8	755.9	751.3	737.3	718.6	702.2	677.7	675.3	650.8
5°	835.4	830.7	830.7	824.9	819.0	803.9	780.5	751.3	716.2	713.9	667.2
7.5°	868.1	869.3	866.9	862.3	863.4	850.6	829.6	800.3	752.4	750.1	689.3
10°	914.8	913.7	909.0	905.5	904.3	892.6	874.0	847.1	796.8	792.2	715.1
12.5°	960.4	956.9	958.1	956.9	954.6	942.9	925.4	898.5	836.6	834.2	746.6
15°	986.1	985.0	993.1	995.5	1004.8	994.3	979.1	948.7	892.6	883.3	784.0
17.5°	1002.5	1001.3	1009.5	1028.2	1045.7	1045.7	1041.0	1008.3	946.4	939.4	826.1
20°	1030.5	1035.2	1049.2	1064.4	1090.1	1094.8	1093.6	1079.6	1008.3	1001.3	872.8
22.5°	1086.6	1084.3	1095.9	1119.3	1142.7	1149.7	1150.9	1150.9	1079.6	1066.7	920.7
25°	1206.9	1201.1	1191.8	1189.4	1217.5	1216.3	1212.8	1221.0	1154.4	1145.0	975.6
27.5°	1436.0	1423.1	1386.9	1314.4	1298.1	1303.9	1286.4	1287.6	1239.7	1228.0	1022.3
30°	1653.3	1647.4	1613.5	1525.9	1433.6	1400.9	1370.5	1357.7	1334.3	1314.4	1072.6
32.5°	1849.6	1850.7	1809.8	1714.0	1619.4	1516.6	1464.0	1437.1	1446.5	1428.9	1141.5
35°	1982.8	1972.2	1946.5	1882.3	1779.5	1681.3	1580.8	1521.2	1571.5	1551.6	1210.5
37.5°	2061.0	2052.9	2031.8	1986.3	1934.9	1840.2	1712.9	1621.7	1719.9	1690.7	1298.1
40°	2100.8	2089.1	2068.0	2049.4	2024.8	1973.4	1861.2	1736.2	1855.4	1829.7	1384.5
42.5°	2105.4	2097.3	2085.6	2076.2	2084.4	2077.4	2006.1	1869.4	1997.9	1969.9	1483.9
45°	2101.9	2107.8	2093.8	2077.4	2093.8	2153.3	2153.3	2002.6	2139.3	2118.3	1578.5
47.5°	2104.3	2098.4	2093.8	2089.1	2091.4	2173.2	2255.0	2127.6	2274.9	2250.3	1689.5
50°	2007.3	2015.5	2055.2	2072.7	2083.2	2177.9	2336.8	2263.2	2443.1	2412.7	1813.3
52.5°	1698.8	1703.5	1884.6	2015.5	2057.5	2159.2	2394.0	2413.9	2609.0	2585.6	1946.5
55°	1308.6	1333.1	1504.9	1825.0	1999.1	2127.6	2411.6	2512.0	2778.4	2759.7	2080.9
57.5°	1077.3	1080.8	1180.1	1466.3	1814.5	2098.4	2429.1	2602.0	2930.3	2909.3	2221.1
60°	893.8	885.6	946.4	1131.0	1507.2	1981.6	2432.6	2673.3	3106.7	3099.7	2366.0
62.5°	656.6	666.0	724.4	881.0	1178.9	1744.4	2415.1	2734.0	3317.1	3307.7	2527.2
65°	403.1	414.8	486.1	629.8	892.6	1384.5	2300.6	2765.6	3537.9	3558.9	2701.3
67.5°	213.8	222.0	264.1	380.9	612.2	1055.1	2024.8	2725.9	3724.8	3734.2	2868.4
70°	156.6	157.7	171.8	215.0	369.2	733.7	1612.4	2552.9	3839.3	3858.0	2923.3
72.5°	136.7	137.9	143.7	154.2	201.0	447.5	1155.5	2251.5	3791.4	3775.1	2831.0
75°	123.8	123.8	128.5	132.0	147.2	247.7	708.0	1842.6	3425.7	3389.5	2413.9
77.5°	106.3	106.3	111.0	115.7	127.4	160.1	370.4	1365.8	2619.5	2557.6	1650.9
80°	85.3	85.3	91.1	97.0	112.2	120.3	181.1	913.7	1497.9	1406.7	751.3
82.5°	58.4	63.1	73.6	80.6	93.5	85.3	106.3	394.9	472.0	408.9	169.4
85°	35.1	37.4	52.6	60.8	70.1	45.6	65.4	151.9	141.4	123.8	38.6
87.5°	3.5	5.8	21.0	24.5	24.5	12.9	28.0	36.2	40.9	42.1	9.3
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°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8
2.5°	636.8	622.8	595.9	571.3	546.8	530.4	514.1	508.2	500.1	494.2	498.9
5°	642.6	613.4	562.0	518.8	489.6	467.4	456.8	451.0	446.3	445.2	444.0
7.5°	649.6	606.4	537.5	489.6	461.5	451.0	448.7	448.7	448.7	449.8	451.0
10°	664.8	608.7	524.6	473.2	458.0	455.7	456.8	461.5	461.5	462.7	462.7
12.5°	682.3	614.6	515.3	470.9	461.5	462.7	463.9	466.2	466.2	469.7	468.5
15°	708.0	626.3	514.1	473.2	465.0	462.7	462.7	461.5	461.5	461.5	463.9
17.5°	740.8	642.6	515.3	473.2	461.5	456.8	453.3	449.8	445.2	447.5	445.2
20°	773.5	662.5	515.3	467.4	452.2	440.5	430.0	424.1	418.3	417.1	418.3
22.5°	814.4	685.8	509.4	454.5	432.3	415.9	400.8	392.6	383.2	379.7	377.4
25°	849.4	704.5	497.7	435.8	410.1	386.7	366.9	352.9	341.2	338.8	338.8
27.5°	885.6	720.9	480.2	412.4	378.6	352.9	330.7	313.1	301.4	300.3	299.1
30°	919.5	734.9	456.8	386.7	350.5	320.1	294.4	279.2	268.7	262.9	259.4
32.5°	963.9	753.6	434.6	361.0	317.8	287.4	264.1	251.2	237.2	227.8	224.3
35°	1020.0	775.8	410.1	333.0	288.6	258.2	244.2	225.5	208.0	197.5	194.0
37.5°	1083.1	807.4	384.4	303.8	259.4	237.2	229.0	199.8	181.1	177.6	176.4
40°	1161.4	837.7	355.2	273.4	231.3	225.5	211.5	181.1	171.8	170.6	169.4
42.5°	1239.7	870.5	327.1	243.0	209.1	211.5	191.6	176.4	168.2	165.9	164.7
45°	1330.8	903.2	299.1	216.2	191.6	191.6	181.1	171.8	164.7	162.4	162.4
47.5°	1426.6	935.9	268.7	192.8	178.8	171.8	172.9	165.9	161.2	158.9	157.7
50°	1546.9	967.4	240.7	176.4	170.6	161.2	164.7	160.1	157.7	155.4	154.2
52.5°	1660.3	981.4	215.0	167.1	165.9	156.6	157.7	155.4	154.2	150.7	149.6
55°	1771.3	977.9	195.1	162.4	160.1	155.4	153.1	151.9	150.7	147.2	146.0
57.5°	1895.1	973.3	182.3	161.2	156.6	151.9	151.9	148.4	143.7	143.7	143.7
60°	2023.7	958.1	176.4	161.2	155.4	151.9	149.6	146.0	141.4	142.5	141.4
62.5°	2168.5	928.9	172.9	164.7	156.6	150.7	148.4	143.7	137.9	139.0	137.9
65°	2295.9	869.3	170.6	168.2	158.9	151.9	146.0	140.2	133.2	134.4	133.2
67.5°	2382.3	768.8	163.6	170.6	162.4	150.7	143.7	135.5	126.2	130.9	129.7
70°	2357.8	625.1	150.7	165.9	165.9	151.9	140.2	129.7	119.2	128.5	125.0
72.5°	2167.4	469.7	126.2	149.6	163.6	151.9	133.2	120.3	111.0	116.8	109.8
75°	1779.5	319.0	100.5	119.2	153.1	153.1	127.4	111.0	99.3	95.8	93.5
77.5°	1110.0	198.6	78.3	87.6	128.5	151.9	121.5	99.3	83.0	80.6	78.3
80°	439.3	106.3	61.9	63.1	94.6	139.0	113.3	84.1	66.6	64.3	59.6
82.5°	100.5	53.7	43.2	42.1	58.4	113.3	102.8	66.6	51.4	51.4	43.2
85°	30.4	28.0	28.0	26.9	29.2	58.4	79.5	45.6	35.1	24.5	21.0
87.5°	8.2	11.7	10.5	9.3	9.3	8.2	25.7	11.7	7.0	3.5	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

(END OF REPORT)