

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: P595055

Luminaire Tested: **IST-PA1B-740-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1B-740-U-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 4000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4179 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - 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

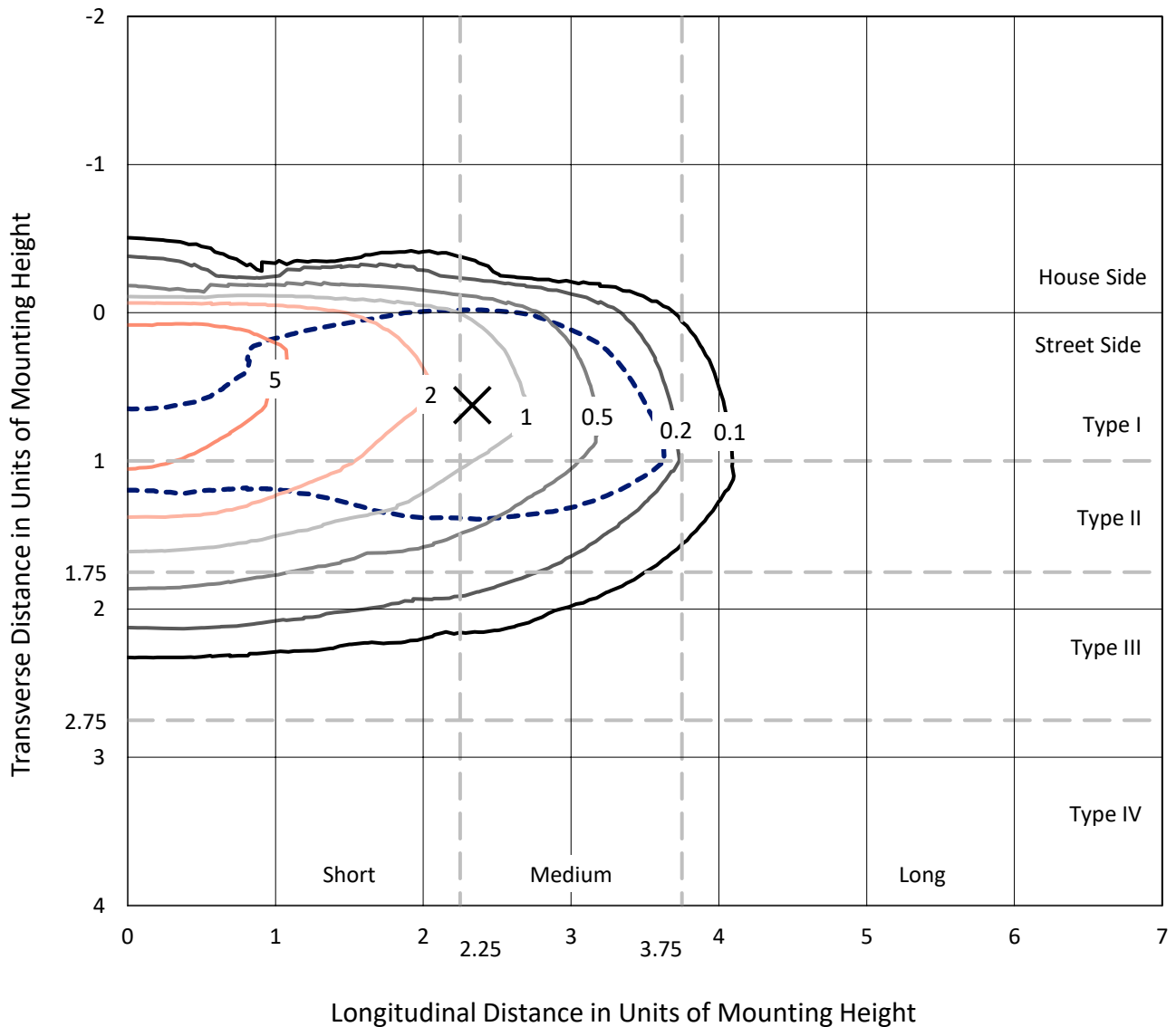




REPORT NUMBER: P595055  
 CATALOG NUMBER: IST-PA1B-740-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

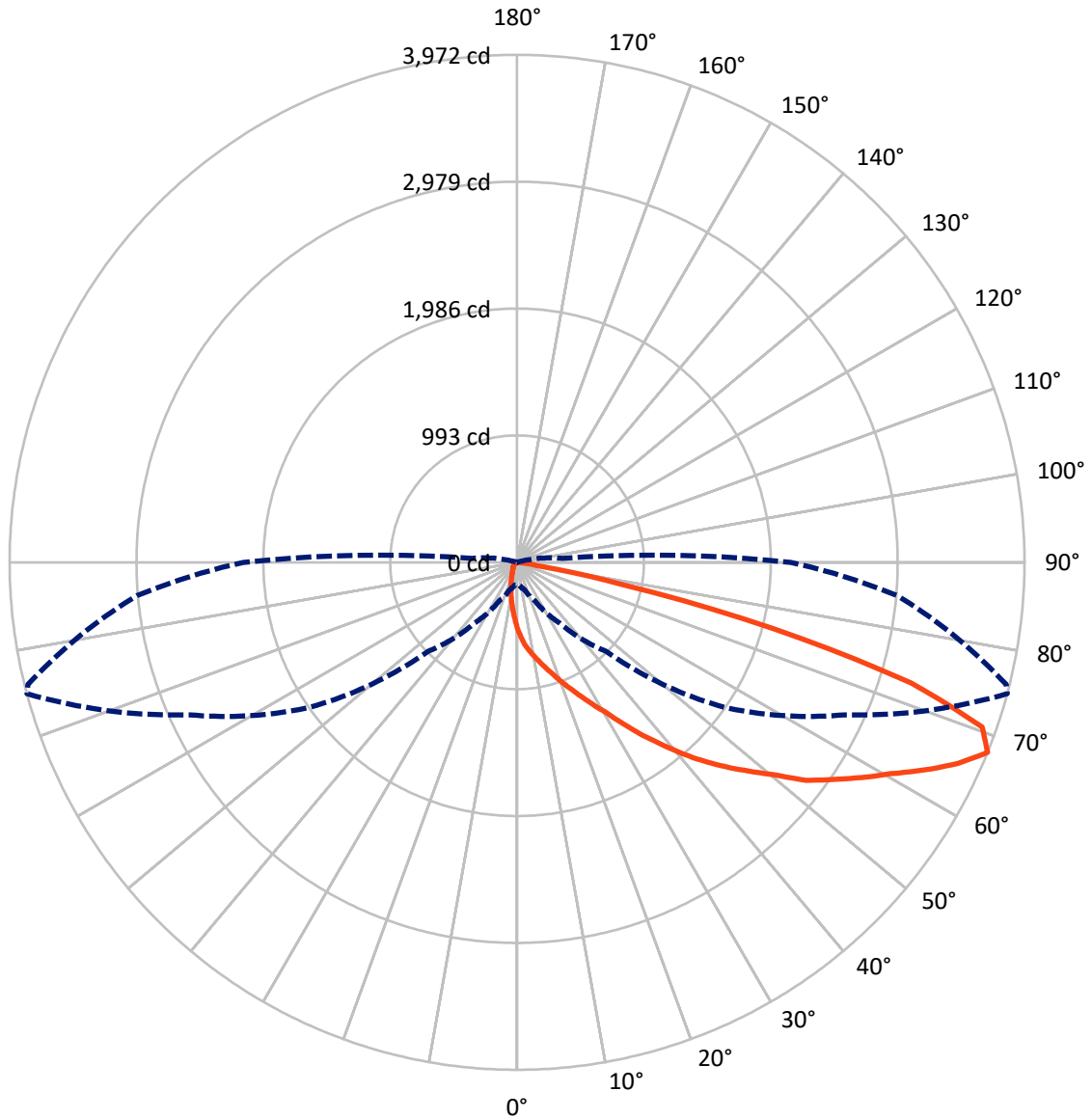
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P595055  
CATALOG NUMBER: IST-PA1B-740-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P595055  
 CATALOG NUMBER: IST-PA1B-740-U-T2R-HSS

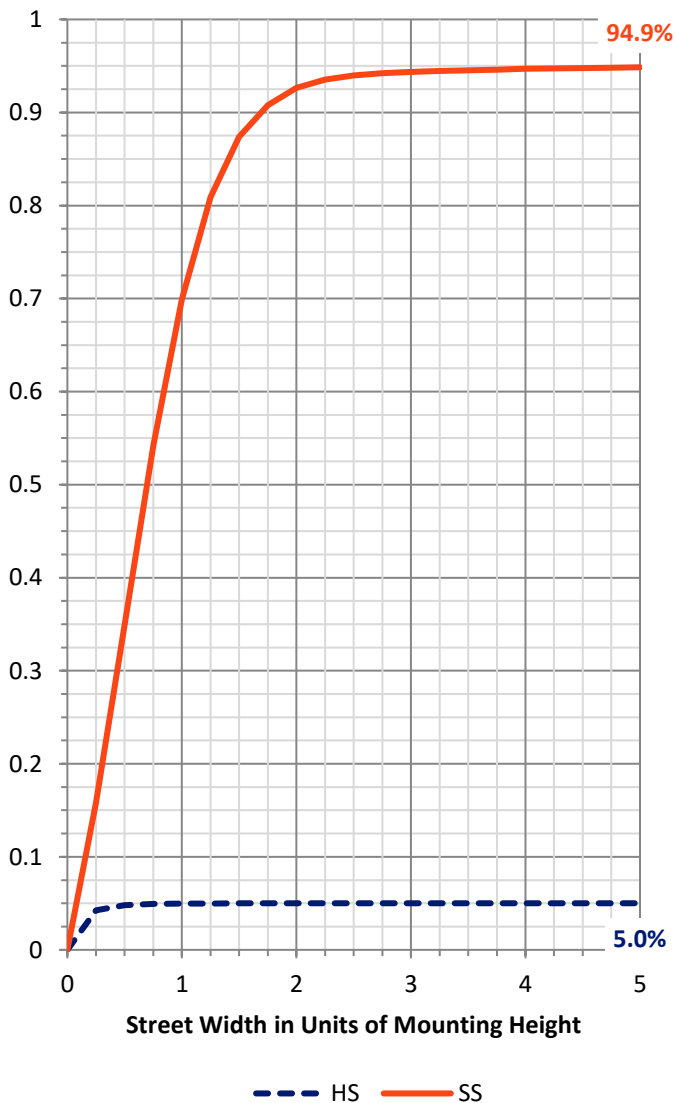
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	210.7	0.0	210.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	3968.3	0.0	3968.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	4179.0	0.0	4179.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.8	1.1
10°-20°	151.2	3.6
20°-30°	303.9	7.3
30°-40°	574.8	13.8
40°-50°	859.8	20.6
50°-60°	992.7	23.8
60°-70°	880.0	21.1
70°-80°	355.7	8.5
80°-90°	14.2	0.3
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°	4179.0	100.0
0°-180°	4179.0	100.0

**Coefficient of Utilization**

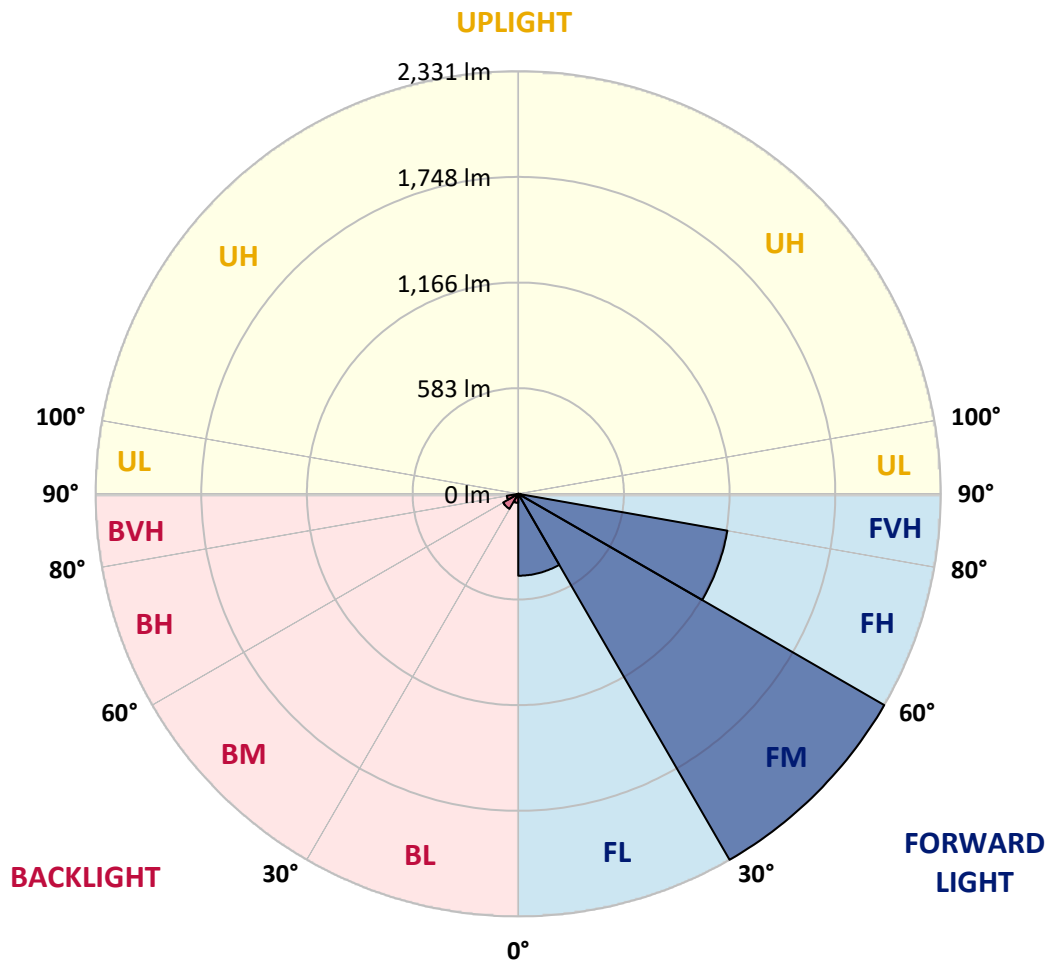


REPORT NUMBER: P595055  
 CATALOG NUMBER: IST-PA1B-740-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.8	10.8			
FM (30°-60°)	2331.2	55.8			
FH (60°-80°)	1171.7	28.0			G1/1800
FVH (80°-90°)	13.6	0.3			G1/100
BL (0°-30°)	50.1	1.2	B0/110		
BM (30°-60°)	96.1	2.3	B0/220		
BH (60°-80°)	63.9	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	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 II Medium





REPORT NUMBER: P595055  
 CATALOG NUMBER: IST-PA1B-740-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4
2.5°	722.6	725.1	720.1	708.8	698.7	674.9	656.1	622.2	585.8	585.8	541.9
5°	807.9	805.4	802.9	794.1	786.6	766.5	741.4	705.0	648.6	643.5	570.8
7.5°	849.3	846.8	841.8	838.0	838.0	824.2	800.4	762.7	700.0	695.0	597.1
10°	898.2	893.2	893.2	883.1	880.6	864.3	851.8	819.2	750.2	743.9	627.2
12.5°	955.9	950.9	952.1	943.4	939.6	922.0	904.5	873.1	804.1	797.8	662.4
15°	988.5	986.0	993.5	994.8	997.3	982.3	965.9	933.3	864.3	855.5	703.8
17.5°	1007.3	1007.3	1016.1	1032.4	1051.2	1042.5	1029.9	1003.6	925.8	920.8	747.7
20°	1043.7	1040.0	1055.0	1070.1	1093.9	1101.4	1097.7	1077.6	999.8	984.8	795.3
22.5°	1103.9	1098.9	1112.7	1131.5	1160.4	1162.9	1165.4	1155.4	1075.1	1060.0	845.5
25°	1245.7	1233.1	1220.6	1218.1	1229.4	1239.4	1231.9	1239.4	1160.4	1146.6	899.5
27.5°	1521.7	1500.3	1440.1	1373.6	1327.2	1336.0	1312.2	1326.0	1258.2	1240.7	949.6
30°	1786.4	1765.0	1716.1	1598.2	1491.6	1443.9	1408.8	1403.8	1358.6	1338.5	1007.3
32.5°	1970.8	1957.0	1924.4	1845.3	1712.4	1590.7	1522.9	1499.1	1492.8	1461.5	1081.4
35°	2096.2	2083.7	2061.1	1997.1	1899.3	1763.8	1647.1	1594.4	1642.1	1604.5	1165.4
37.5°	2171.5	2162.7	2137.6	2093.7	2041.0	1952.0	1801.4	1717.4	1792.6	1757.5	1273.3
40°	2226.7	2204.1	2186.5	2152.7	2135.1	2106.3	1977.0	1845.3	1955.7	1919.3	1379.9
42.5°	2231.7	2221.7	2207.9	2187.8	2190.3	2209.1	2164.0	1993.4	2120.1	2086.2	1492.8
45°	2230.4	2220.4	2210.4	2190.3	2202.9	2273.1	2314.5	2148.9	2280.6	2245.5	1612.0
47.5°	2194.1	2186.5	2189.1	2189.1	2205.4	2300.7	2431.2	2307.0	2441.2	2407.3	1756.3
50°	2066.1	2073.6	2123.8	2150.2	2179.0	2302.0	2512.7	2472.6	2614.3	2590.5	1895.5
52.5°	1660.9	1703.6	1906.8	2046.0	2130.1	2276.9	2565.4	2646.9	2833.9	2797.5	2053.6
55°	1269.5	1272.0	1467.7	1791.4	2033.5	2231.7	2595.5	2764.9	3000.7	2980.6	2192.8
57.5°	1029.9	1028.7	1125.3	1416.3	1782.6	2160.2	2603.0	2851.4	3177.6	3139.9	2353.4
60°	841.8	836.7	894.4	1073.8	1456.4	1992.1	2575.4	2921.7	3359.5	3345.7	2521.5
62.5°	608.4	613.4	690.0	829.2	1122.8	1682.2	2516.5	2943.0	3579.0	3565.2	2709.7
65°	350.0	365.1	449.1	597.1	860.6	1315.9	2348.4	2926.7	3793.5	3792.3	2884.0
67.5°	175.6	176.9	222.0	333.7	578.3	984.8	1977.0	2823.8	3971.7	3944.1	2984.4
70°	112.9	115.4	130.5	171.9	319.9	682.4	1510.4	2532.8	3860.0	3850.0	2837.6
72.5°	86.6	89.1	101.6	112.9	166.8	387.6	1022.4	1968.3	3222.7	3195.1	2212.9
75°	67.7	69.0	81.5	91.6	111.6	181.9	513.1	1226.9	2076.1	2004.6	1259.5
77.5°	53.9	55.2	61.5	72.8	85.3	101.6	151.8	552.0	844.3	753.9	409.0
80°	35.1	36.4	46.4	56.5	72.8	66.5	59.0	159.3	180.6	163.1	72.8
82.5°	20.1	21.3	31.4	45.2	55.2	37.6	33.9	46.4	42.7	41.4	22.6
85°	6.3	6.3	21.3	31.4	25.1	11.3	21.3	16.3	13.8	12.5	7.5
87.5°	1.3	1.3	10.0	11.3	3.8	1.3	2.5	3.8	5.0	6.3	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595055  
 CATALOG NUMBER: IST-PA1B-740-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4	519.4
2.5°	520.6	495.5	449.1	409.0	370.1	336.2	312.4	291.0	276.0	272.2	265.9
5°	524.4	475.4	386.4	311.1	245.9	193.2	163.1	143.0	133.0	126.7	126.7
7.5°	528.1	455.4	327.4	227.1	155.6	117.9	99.1	90.3	86.6	85.3	84.0
10°	535.7	440.3	277.2	163.1	106.6	89.1	81.5	77.8	75.3	74.0	74.0
12.5°	548.2	427.8	230.8	120.4	87.8	79.0	74.0	69.0	66.5	65.2	65.2
15°	564.5	419.0	190.7	96.6	80.3	71.5	65.2	60.2	56.5	55.2	55.2
17.5°	587.1	412.7	156.8	85.3	74.0	64.0	56.5	51.4	47.7	46.4	46.4
20°	609.7	412.7	129.2	79.0	67.7	56.5	48.9	42.7	38.9	37.6	37.6
22.5°	639.8	411.5	107.9	72.8	60.2	48.9	41.4	33.9	31.4	30.1	30.1
25°	664.9	411.5	92.8	66.5	52.7	42.7	33.9	27.6	25.1	23.8	23.8
27.5°	695.0	407.7	79.0	59.0	45.2	35.1	27.6	22.6	20.1	18.8	18.8
30°	721.3	402.7	70.3	52.7	38.9	28.9	22.6	17.6	16.3	16.3	16.3
32.5°	765.2	398.9	62.7	45.2	32.6	23.8	17.6	13.8	12.5	12.5	12.5
35°	817.9	398.9	57.7	38.9	27.6	20.1	13.8	11.3	10.0	10.0	10.0
37.5°	886.9	402.7	51.4	33.9	22.6	16.3	11.3	8.8	7.5	7.5	7.5
40°	959.7	411.5	46.4	30.1	20.1	12.5	8.8	6.3	5.0	6.3	6.3
42.5°	1046.2	420.2	41.4	26.3	16.3	10.0	6.3	3.8	2.5	3.8	3.8
45°	1131.5	429.0	38.9	22.6	13.8	7.5	3.8	2.5	1.3	2.5	2.5
47.5°	1236.9	450.4	36.4	20.1	11.3	6.3	2.5	1.3	0.0	1.3	1.3
50°	1358.6	474.2	32.6	16.3	8.8	5.0	2.5	0.0	0.0	0.0	0.0
52.5°	1475.3	494.3	28.9	13.8	7.5	3.8	1.3	0.0	0.0	0.0	0.0
55°	1591.9	506.8	25.1	11.3	6.3	3.8	1.3	0.0	0.0	0.0	0.0
57.5°	1717.4	514.3	22.6	10.0	5.0	2.5	1.3	0.0	0.0	0.0	0.0
60°	1856.6	514.3	18.8	8.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0
62.5°	2010.9	499.3	17.6	7.5	3.8	2.5	1.3	0.0	0.0	0.0	0.0
65°	2136.4	445.3	15.1	6.3	3.8	2.5	1.3	0.0	0.0	0.0	0.0
67.5°	2141.4	352.5	13.8	5.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0
70°	1909.3	240.9	11.3	3.8	2.5	2.5	1.3	0.0	0.0	0.0	0.0
72.5°	1428.8	129.2	10.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0	0.0
75°	770.2	50.2	6.3	3.8	2.5	1.3	1.3	0.0	0.0	0.0	0.0
77.5°	224.6	25.1	3.8	2.5	2.5	1.3	1.3	0.0	0.0	0.0	0.0
80°	41.4	12.5	2.5	2.5	2.5	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	11.3	5.0	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.5	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	1.3	1.3	1.3	1.3	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)