

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: P595056

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

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595056  
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-740-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 4000K, 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: 5211 lumens  
Efficiency: N/A  
Efficacy: 143.2 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

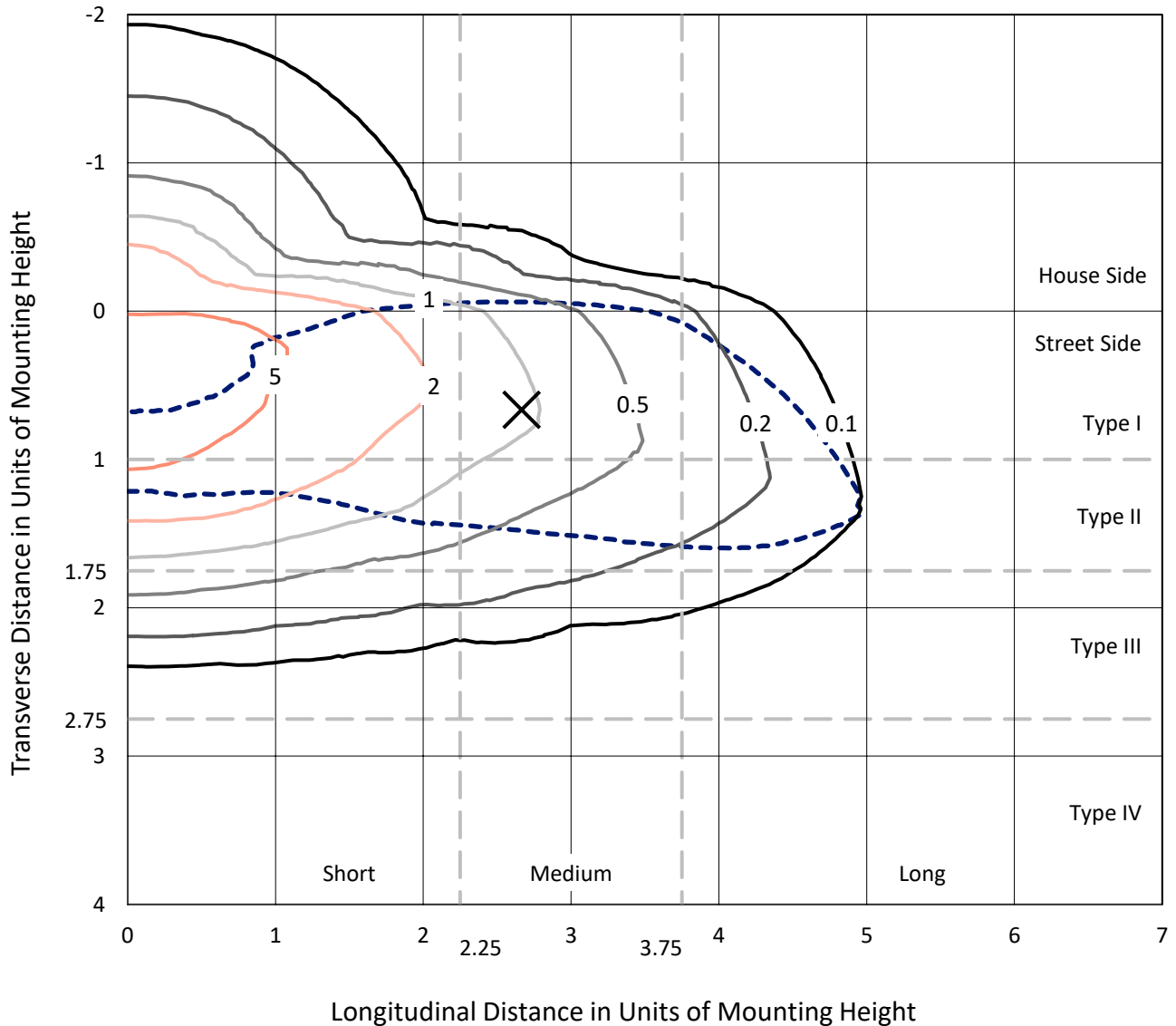
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

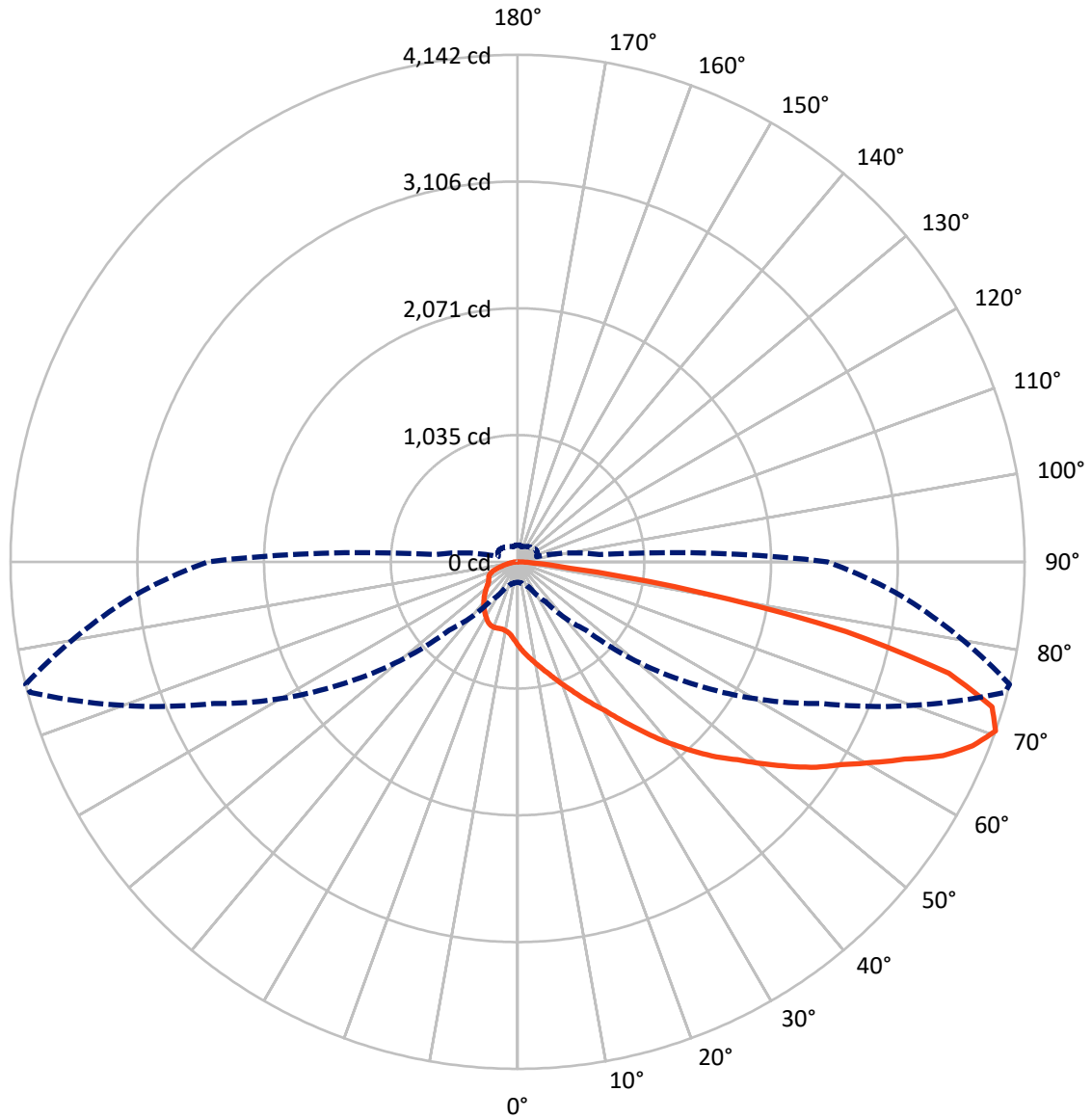
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.2 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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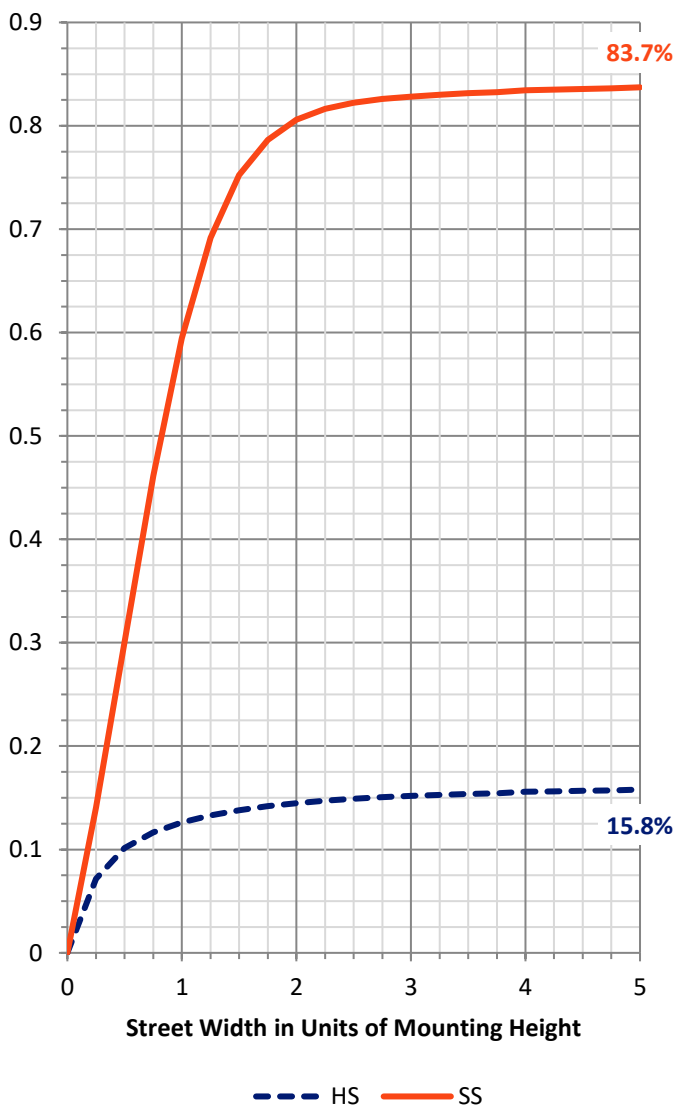
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	835.8	0.0	835.8
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	4375.2	0.0	4375.2
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	5211.0	0.0	5211.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	1.3
10°-20°	219.9	4.2
20°-30°	405.2	7.8
30°-40°	678.9	13.0
40°-50°	964.6	18.5
50°-60°	1113.7	21.4
60°-70°	1023.8	19.6
70°-80°	645.5	12.4
80°-90°	92.8	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°	5211.0	100.0
0°-180°	5211.0	100.0

**Coefficient of Utilization**

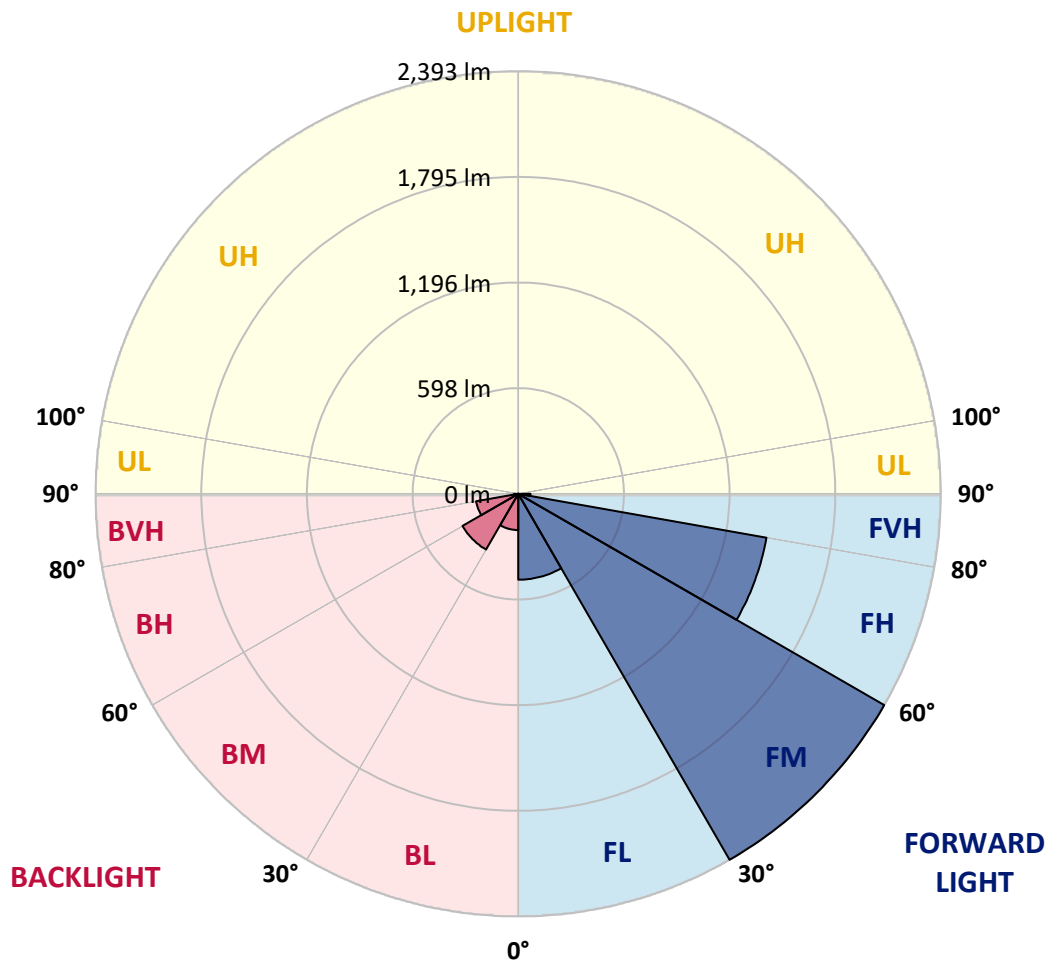


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.5	9.3			
FM (30°-60°)	2392.8	45.9			
FH (60°-80°)	1427.1	27.4			G1/1800
FVH (80°-90°)	68.8	1.3			G1/100
BL (0°-30°)	205.2	3.9	B1/500		
BM (30°-60°)	364.4	7.0	B1/1000		
BH (60°-80°)	242.2	4.6	B1/500		G1/500
BVH (80°-90°)	24.0	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°	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6
2.5°	822.8	821.6	817.8	811.5	806.5	791.5	771.4	753.8	727.5	725.0	698.7
5°	896.8	891.8	891.8	885.6	879.3	863.0	837.9	806.5	768.9	766.4	716.2
7.5°	932.0	933.2	930.7	925.7	926.9	913.1	890.6	859.2	807.8	805.3	740.0
10°	982.1	980.9	975.9	972.1	970.8	958.3	938.2	909.4	855.4	850.4	767.6
12.5°	1031.1	1027.3	1028.5	1027.3	1024.8	1012.2	993.4	964.6	898.1	895.6	801.5
15°	1058.6	1057.4	1066.2	1068.7	1078.7	1067.4	1051.1	1018.5	958.3	948.3	841.7
17.5°	1076.2	1075.0	1083.7	1103.8	1122.6	1122.6	1117.6	1082.5	1016.0	1008.5	886.8
20°	1106.3	1111.3	1126.4	1142.7	1170.3	1175.3	1174.0	1159.0	1082.5	1075.0	937.0
22.5°	1166.5	1164.0	1176.6	1201.6	1226.7	1234.3	1235.5	1235.5	1159.0	1145.2	988.4
25°	1295.7	1289.4	1279.4	1276.9	1307.0	1305.7	1302.0	1310.8	1239.3	1229.2	1047.4
27.5°	1541.6	1527.8	1488.9	1411.1	1393.6	1399.8	1381.0	1382.3	1330.8	1318.3	1097.5
30°	1774.9	1768.6	1732.2	1638.1	1539.1	1503.9	1471.3	1457.5	1432.4	1411.1	1151.5
32.5°	1985.6	1986.8	1942.9	1840.1	1738.5	1628.1	1571.7	1542.8	1552.9	1534.0	1225.5
35°	2128.6	2117.3	2089.7	2020.7	1910.3	1805.0	1697.1	1633.1	1687.1	1665.7	1299.5
37.5°	2212.6	2203.8	2181.3	2132.3	2077.2	1975.6	1838.8	1741.0	1846.4	1815.0	1393.6
40°	2255.3	2242.7	2220.1	2200.1	2173.7	2118.5	1998.1	1863.9	1991.9	1964.3	1486.4
42.5°	2260.3	2251.5	2239.0	2228.9	2237.7	2230.2	2153.7	2006.9	2144.9	2114.8	1593.0
45°	2256.5	2262.8	2247.7	2230.2	2247.7	2311.7	2311.7	2149.9	2296.7	2274.1	1694.6
47.5°	2259.0	2252.8	2247.7	2242.7	2245.2	2333.0	2420.8	2284.1	2442.2	2415.8	1813.7
50°	2154.9	2163.7	2206.4	2225.2	2236.5	2338.1	2508.6	2429.6	2622.8	2590.2	1946.7
52.5°	1823.8	1828.8	2023.2	2163.7	2208.9	2318.0	2570.1	2591.4	2800.9	2775.8	2089.7
55°	1404.8	1431.2	1615.6	1959.3	2146.1	2284.1	2588.9	2696.8	2982.8	2962.7	2233.9
57.5°	1156.5	1160.2	1266.9	1574.2	1948.0	2252.8	2607.7	2793.4	3145.8	3123.3	2384.5
60°	959.6	950.8	1016.0	1214.2	1618.1	2127.3	2611.5	2869.9	3335.2	3327.7	2540.0
62.5°	704.9	715.0	777.7	945.8	1265.6	1872.7	2592.7	2935.1	3561.0	3551.0	2713.1
65°	432.7	445.3	521.8	676.1	958.3	1486.4	2469.8	2969.0	3798.1	3820.7	2900.0
67.5°	229.5	238.3	283.5	408.9	657.3	1132.7	2173.7	2926.3	3998.8	4008.8	3079.4
70°	168.1	169.3	184.4	230.8	396.4	787.7	1731.0	2740.7	4121.7	4141.8	3138.3
72.5°	146.8	148.0	154.3	165.6	215.7	480.4	1240.5	2417.1	4070.3	4052.7	3039.2
75°	133.0	133.0	138.0	141.7	158.0	265.9	760.1	1978.1	3677.7	3638.8	2591.4
77.5°	114.1	114.1	119.2	124.2	136.7	171.8	397.6	1466.3	2812.2	2745.7	1772.4
80°	91.6	91.6	97.8	104.1	120.4	129.2	194.4	980.9	1608.0	1510.2	806.5
82.5°	62.7	67.7	79.0	86.5	100.3	91.6	114.1	424.0	506.7	439.0	181.9
85°	37.6	40.1	56.4	65.2	75.3	48.9	70.2	163.1	151.8	133.0	41.4
87.5°	3.8	6.3	22.6	26.3	26.3	13.8	30.1	38.9	43.9	45.2	10.0
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°	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6	683.6
2.5°	683.6	668.6	639.7	613.4	587.0	569.5	551.9	545.6	536.8	530.6	535.6
5°	689.9	658.5	603.3	556.9	525.6	501.7	490.4	484.2	479.2	477.9	476.6
7.5°	697.4	651.0	577.0	525.6	495.5	484.2	481.7	481.7	481.7	482.9	484.2
10°	713.7	653.5	563.2	508.0	491.7	489.2	490.4	495.5	495.5	496.7	496.7
12.5°	732.5	659.8	553.2	505.5	495.5	496.7	498.0	500.5	500.5	504.2	503.0
15°	760.1	672.3	551.9	508.0	499.2	496.7	496.7	495.5	495.5	495.5	498.0
17.5°	795.2	689.9	553.2	508.0	495.5	490.4	486.7	482.9	477.9	480.4	477.9
20°	830.4	711.2	553.2	501.7	485.4	472.9	461.6	455.3	449.0	447.8	449.0
22.5°	874.3	736.3	546.9	487.9	464.1	446.5	430.2	421.5	411.4	407.7	405.1
25°	911.9	756.4	534.3	467.9	440.3	415.2	393.9	378.8	366.3	363.8	363.8
27.5°	950.8	773.9	515.5	442.8	406.4	378.8	355.0	336.2	323.6	322.4	321.1
30°	987.2	789.0	490.4	415.2	376.3	343.7	316.1	299.8	288.5	282.2	278.5
32.5°	1034.8	809.0	466.6	387.6	341.2	308.6	283.5	269.7	254.6	244.6	240.8
35°	1095.0	832.9	440.3	357.5	309.8	277.2	262.2	242.1	223.3	212.0	208.2
37.5°	1162.8	866.7	412.7	326.1	278.5	254.6	245.8	214.5	194.4	190.7	189.4
40°	1246.8	899.3	381.3	293.5	248.4	242.1	227.0	194.4	184.4	183.1	181.9
42.5°	1330.8	934.5	351.2	260.9	224.5	227.0	205.7	189.4	180.6	178.1	176.9
45°	1428.7	969.6	321.1	232.0	205.7	205.7	194.4	184.4	176.9	174.4	174.4
47.5°	1531.5	1004.7	288.5	207.0	191.9	184.4	185.6	178.1	173.1	170.6	169.3
50°	1660.7	1038.6	258.4	189.4	183.1	173.1	176.9	171.8	169.3	166.8	165.6
52.5°	1782.4	1053.6	230.8	179.4	178.1	168.1	169.3	166.8	165.6	161.8	160.6
55°	1901.6	1049.9	209.5	174.4	171.8	166.8	164.3	163.1	161.8	158.0	156.8
57.5°	2034.5	1044.9	195.7	173.1	168.1	163.1	163.1	159.3	154.3	154.3	154.3
60°	2172.5	1028.5	189.4	173.1	166.8	163.1	160.6	156.8	151.8	153.0	151.8
62.5°	2328.0	997.2	185.6	176.9	168.1	161.8	159.3	154.3	148.0	149.3	148.0
65°	2464.7	933.2	183.1	180.6	170.6	163.1	156.8	150.5	143.0	144.2	143.0
67.5°	2557.6	825.3	175.6	183.1	174.4	161.8	154.3	145.5	135.5	140.5	139.2
70°	2531.2	671.1	161.8	178.1	178.1	163.1	150.5	139.2	127.9	138.0	134.2
72.5°	2326.8	504.2	135.5	160.6	175.6	163.1	143.0	129.2	119.2	125.4	117.9
75°	1910.3	342.4	107.9	127.9	164.3	164.3	136.7	119.2	106.6	102.9	100.3
77.5°	1191.6	213.2	84.0	94.1	138.0	163.1	130.4	106.6	89.1	86.5	84.0
80°	471.6	114.1	66.5	67.7	101.6	149.3	121.7	90.3	71.5	69.0	64.0
82.5°	107.9	57.7	46.4	45.2	62.7	121.7	110.4	71.5	55.2	55.2	46.4
85°	32.6	30.1	30.1	28.8	31.4	62.7	85.3	48.9	37.6	26.3	22.6
87.5°	8.8	12.5	11.3	10.0	10.0	8.8	27.6	12.5	7.5	3.8	2.5
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)