

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: P595371

Luminaire Tested: **IST-PA1F-735-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595371  
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-PA1F-735-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10562 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

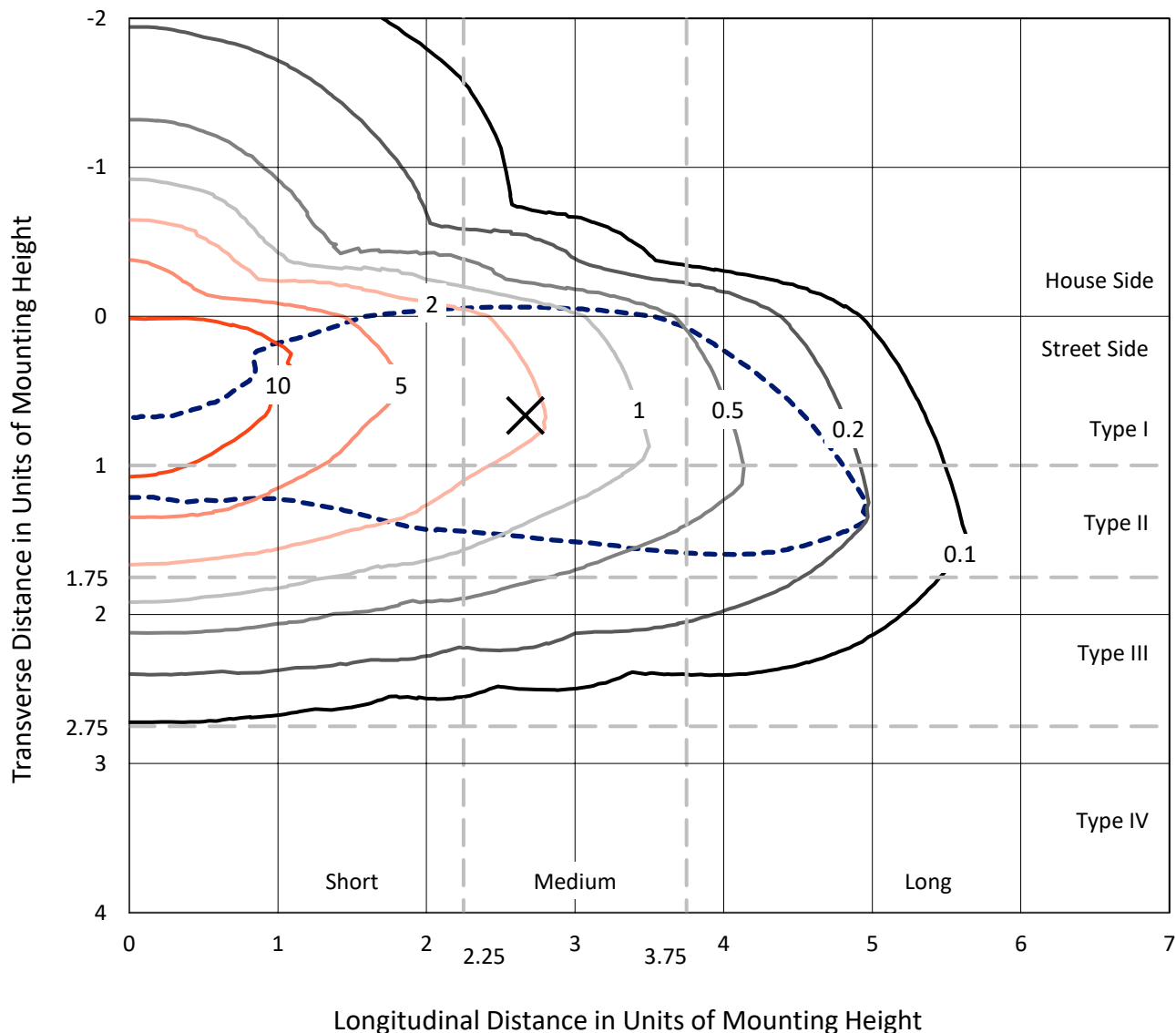
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595371  
 CATALOG NUMBER: IST-PA1F-735-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

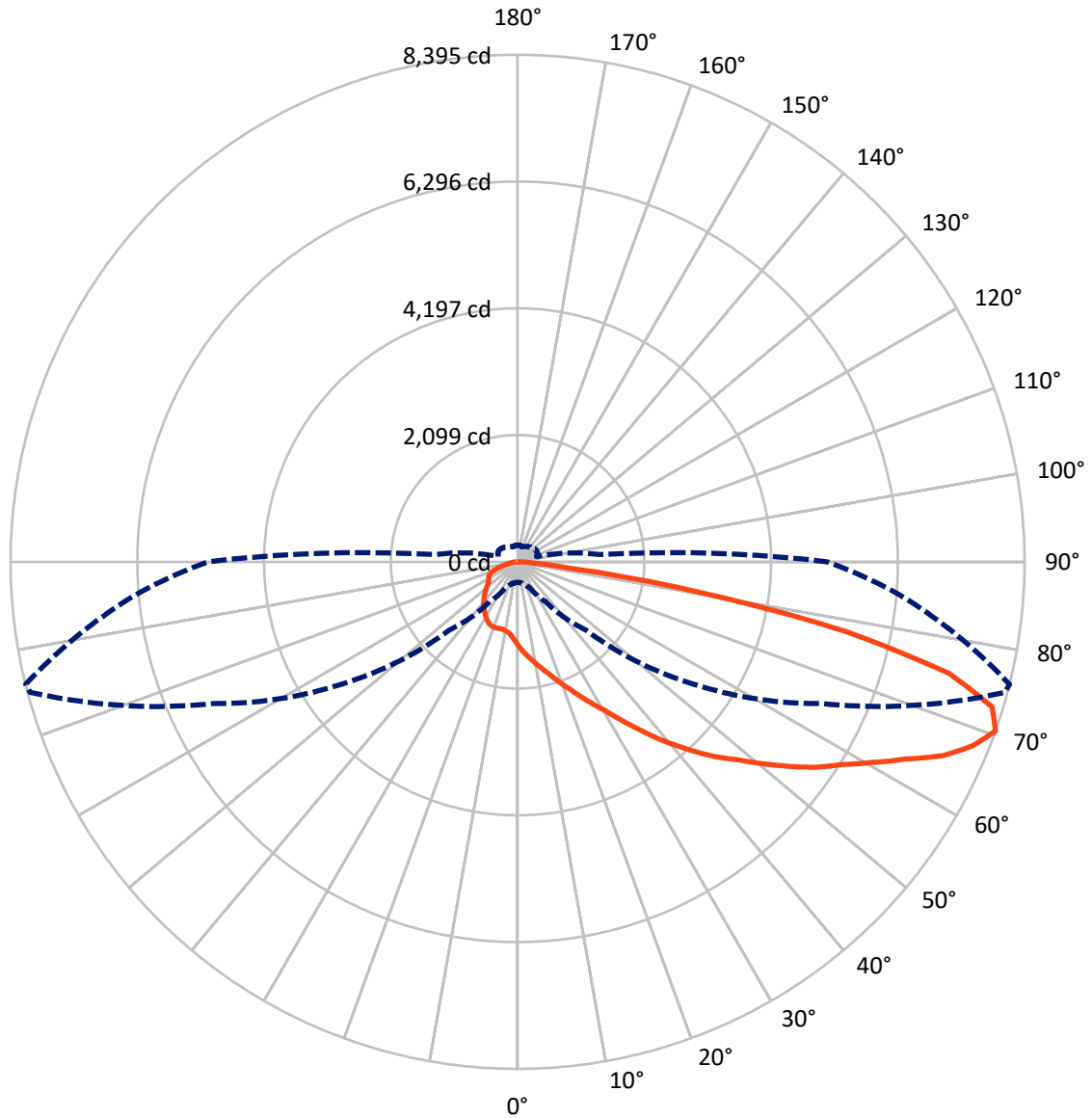
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.7 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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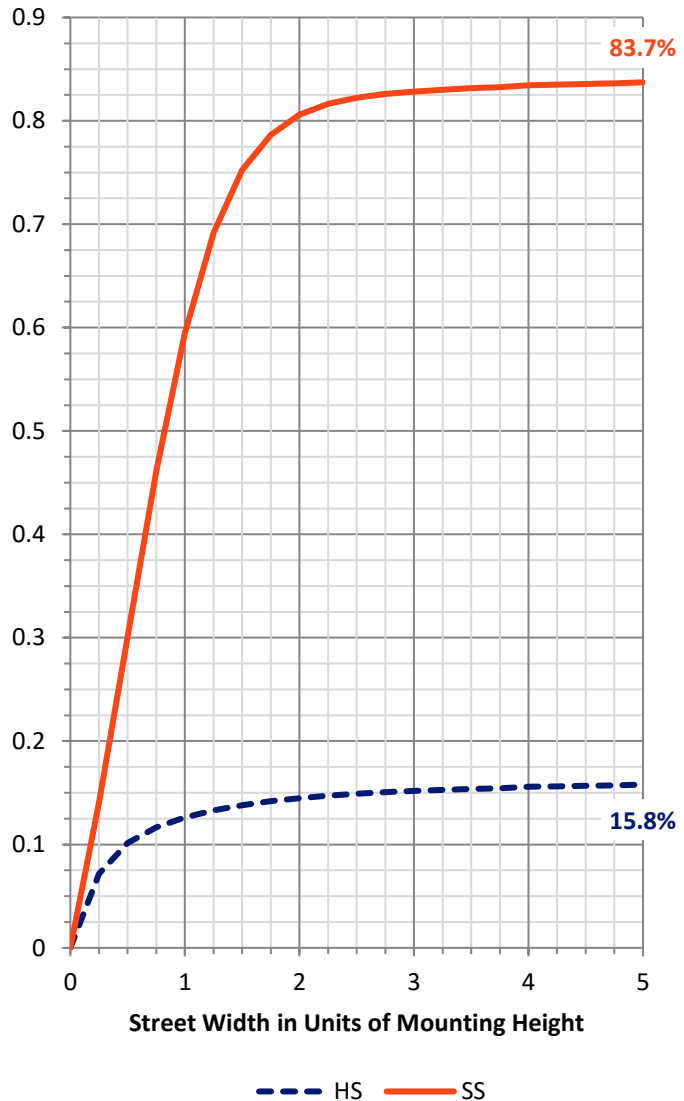
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1694.0	0.0	1694.0
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	8867.9	0.0	8867.9
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	10562.0	0.0	10562.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.1	1.3
10°-20°	445.6	4.2
20°-30°	821.2	7.8
30°-40°	1375.9	13.0
40°-50°	1955.1	18.5
50°-60°	2257.3	21.4
60°-70°	2075.1	19.6
70°-80°	1308.4	12.4
80°-90°	188.2	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°	10562.0	100.0
0°-180°	10562.0	100.0

**Coefficient of Utilization**

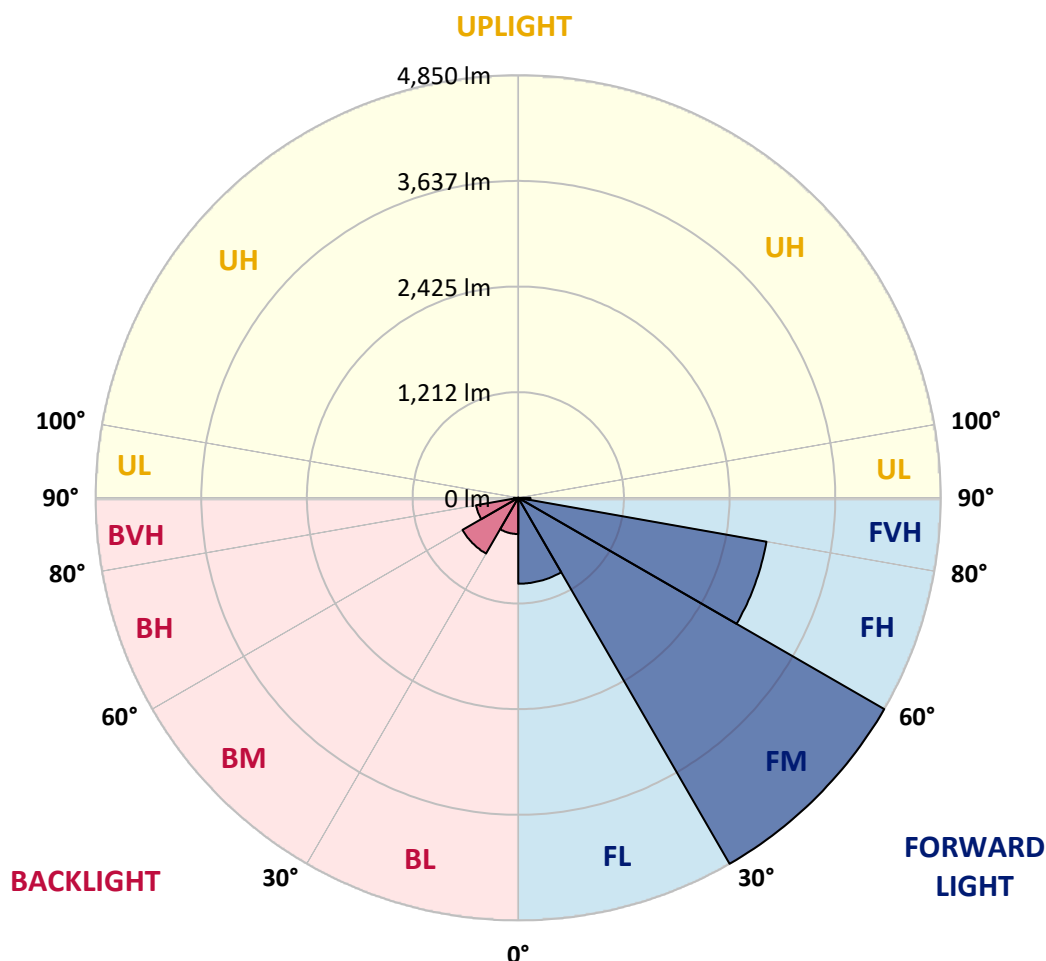


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.1	9.3			
FM (30°-60°)	4849.8	45.9			
FH (60°-80°)	2892.5	27.4			G2/5000
FVH (80°-90°)	139.5	1.3			G2/225
BL (0°-30°)	415.8	3.9	B1/500		
BM (30°-60°)	738.5	7.0	B1/1000		
BH (60°-80°)	491.0	4.6	B1/500		G1/500
BVH (80°-90°)	48.7	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-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6
2.5°	1667.8	1665.2	1657.6	1644.9	1634.7	1604.2	1563.5	1527.9	1474.6	1469.5	1416.1
5°	1817.8	1807.6	1807.6	1794.9	1782.2	1749.1	1698.3	1634.7	1558.5	1553.4	1451.7
7.5°	1889.0	1891.5	1886.4	1876.2	1878.8	1850.8	1805.1	1741.5	1637.3	1632.2	1500.0
10°	1990.7	1988.1	1977.9	1970.3	1967.8	1942.3	1901.7	1843.2	1733.9	1723.7	1555.9
12.5°	2089.8	2082.2	2084.7	2082.2	2077.1	2051.7	2013.5	1955.1	1820.3	1815.2	1624.6
15°	2145.7	2143.2	2161.0	2166.1	2186.4	2163.5	2130.5	2064.4	1942.3	1922.0	1705.9
17.5°	2181.3	2178.8	2196.6	2237.3	2275.4	2275.4	2265.2	2194.0	2059.3	2044.0	1797.4
20°	2242.3	2252.5	2283.0	2316.1	2372.0	2382.2	2379.6	2349.1	2194.0	2178.8	1899.1
22.5°	2364.4	2359.3	2384.7	2435.6	2486.4	2501.7	2504.2	2504.2	2349.1	2321.2	2003.4
25°	2626.2	2613.5	2593.2	2588.1	2649.1	2646.6	2639.0	2656.7	2511.8	2491.5	2122.9
27.5°	3124.5	3096.6	3017.8	2860.1	2824.5	2837.3	2799.1	2801.7	2697.4	2672.0	2224.6
30°	3597.4	3584.7	3511.0	3320.3	3119.5	3048.3	2982.2	2954.2	2903.4	2860.1	2333.9
32.5°	4024.5	4027.1	3938.1	3729.6	3523.7	3300.0	3185.6	3127.1	3147.4	3109.3	2483.9
35°	4314.4	4291.5	4235.5	4095.7	3872.0	3658.4	3439.8	3310.1	3419.5	3376.2	2633.9
37.5°	4484.7	4466.9	4421.1	4322.0	4210.1	4004.2	3727.1	3528.8	3742.3	3678.8	2824.5
40°	4571.1	4545.7	4499.9	4459.3	4405.9	4294.0	4050.0	3777.9	4037.2	3981.3	3012.7
42.5°	4581.3	4563.5	4538.1	4517.7	4535.5	4520.3	4365.2	4067.7	4347.4	4286.4	3228.8
45°	4573.7	4586.4	4555.9	4520.3	4555.9	4685.5	4685.5	4357.6	4655.0	4609.3	3434.7
47.5°	4578.8	4566.0	4555.9	4545.7	4550.8	4728.8	4906.7	4629.6	4949.9	4896.6	3676.2
50°	4367.7	4385.5	4472.0	4510.1	4533.0	4738.9	5084.7	4924.5	5316.0	5249.9	3945.7
52.5°	3696.6	3706.7	4100.8	4385.5	4477.1	4698.2	5209.3	5252.5	5677.1	5626.2	4235.5
55°	2847.4	2900.8	3274.5	3971.1	4349.9	4629.6	5247.4	5466.0	6045.7	6005.0	4527.9
57.5°	2344.0	2351.7	2567.8	3190.6	3948.3	4566.0	5285.5	5661.8	6376.2	6330.4	4833.0
60°	1944.9	1927.1	2059.3	2461.0	3279.6	4311.8	5293.2	5816.9	6760.1	6744.8	5148.2
62.5°	1428.8	1449.1	1576.3	1916.9	2565.2	3795.7	5255.0	5949.1	7217.7	7197.4	5499.1
65°	877.1	902.5	1057.6	1370.3	1942.3	3012.7	5005.9	6017.7	7698.2	7744.0	5877.9
67.5°	465.2	483.0	574.6	828.8	1332.2	2295.7	4405.9	5931.3	8105.0	8125.3	6241.5
70°	340.7	343.2	373.7	467.8	803.4	1596.6	3508.4	5555.0	8354.1	8394.8	6360.9
72.5°	297.5	300.0	312.7	335.6	437.3	973.7	2514.4	4899.1	8249.9	8214.3	6160.1
75°	269.5	269.5	279.7	287.3	320.3	539.0	1540.7	4009.3	7454.1	7375.3	5252.5
77.5°	231.4	231.4	241.5	251.7	277.1	348.3	805.9	2972.0	5699.9	5565.2	3592.3
80°	185.6	185.6	198.3	211.0	244.1	261.9	394.1	1988.1	3259.3	3061.0	1634.7
82.5°	127.1	137.3	160.2	175.4	203.4	185.6	231.4	859.3	1027.1	889.8	368.6
85°	76.3	81.4	114.4	132.2	152.5	99.2	142.4	330.5	307.6	269.5	83.9
87.5°	7.6	12.7	45.8	53.4	53.4	28.0	61.0	78.8	89.0	91.5	20.3
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°	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6	1385.6
2.5°	1385.6	1355.1	1296.6	1243.2	1189.8	1154.2	1118.6	1105.9	1088.1	1075.4	1085.6
5°	1398.3	1334.7	1222.9	1128.8	1065.2	1016.9	994.1	981.3	971.2	968.6	966.1
7.5°	1413.5	1319.5	1169.5	1065.2	1004.2	981.3	976.3	976.3	976.3	978.8	981.3
10°	1446.6	1324.6	1141.5	1029.6	996.6	991.5	994.1	1004.2	1004.2	1006.8	1006.8
12.5°	1484.7	1337.3	1121.2	1024.6	1004.2	1006.8	1009.3	1014.4	1014.4	1022.0	1019.5
15°	1540.7	1362.7	1118.6	1029.6	1011.9	1006.8	1006.8	1004.2	1004.2	1004.2	1009.3
17.5°	1611.8	1398.3	1121.2	1029.6	1004.2	994.1	986.4	978.8	968.6	973.7	968.6
20°	1683.0	1441.5	1121.2	1016.9	983.9	958.5	935.6	922.9	910.2	907.6	910.2
22.5°	1772.0	1492.4	1108.5	989.0	940.7	905.1	872.0	854.2	833.9	826.3	821.2
25°	1848.3	1533.0	1083.0	948.3	892.4	841.5	798.3	767.8	742.4	737.3	737.3
27.5°	1927.1	1568.6	1044.9	897.4	823.7	767.8	719.5	681.3	655.9	653.4	650.8
30°	2000.8	1599.1	994.1	841.5	762.7	696.6	640.7	607.6	584.7	572.0	564.4
32.5°	2097.4	1639.8	945.8	785.6	691.5	625.4	574.6	546.6	516.1	495.8	488.1
35°	2219.5	1688.1	892.4	724.6	628.0	561.9	531.3	490.7	452.5	429.7	422.0
37.5°	2356.8	1756.8	836.4	661.0	564.4	516.1	498.3	434.7	394.1	386.4	383.9
40°	2527.1	1822.9	772.9	594.9	503.4	490.7	460.2	394.1	373.7	371.2	368.6
42.5°	2697.4	1894.0	711.9	528.8	455.1	460.2	416.9	383.9	366.1	361.0	358.5
45°	2895.7	1965.2	650.8	470.3	416.9	416.9	394.1	373.7	358.5	353.4	353.4
47.5°	3104.2	2036.4	584.7	419.5	389.0	373.7	376.3	361.0	350.8	345.8	343.2
50°	3366.1	2105.1	523.7	383.9	371.2	350.8	358.5	348.3	343.2	338.1	335.6
52.5°	3612.7	2135.6	467.8	363.6	361.0	340.7	343.2	338.1	335.6	328.0	325.4
55°	3854.2	2127.9	424.6	353.4	348.3	338.1	333.0	330.5	328.0	320.3	317.8
57.5°	4123.7	2117.8	396.6	350.8	340.7	330.5	330.5	322.9	312.7	312.7	312.7
60°	4403.3	2084.7	383.9	350.8	338.1	330.5	325.4	317.8	307.6	310.2	307.6
62.5°	4718.6	2021.2	376.3	358.5	340.7	328.0	322.9	312.7	300.0	302.5	300.0
65°	4995.7	1891.5	371.2	366.1	345.8	330.5	317.8	305.1	289.8	292.4	289.8
67.5°	5183.8	1672.9	355.9	371.2	353.4	328.0	312.7	294.9	274.6	284.7	282.2
70°	5130.4	1360.2	328.0	361.0	361.0	330.5	305.1	282.2	259.3	279.7	272.0
72.5°	4716.0	1022.0	274.6	325.4	355.9	330.5	289.8	261.9	241.5	254.2	239.0
75°	3872.0	694.1	218.6	259.3	333.0	333.0	277.1	241.5	216.1	208.5	203.4
77.5°	2415.2	432.2	170.3	190.7	279.7	330.5	264.4	216.1	180.5	175.4	170.3
80°	955.9	231.4	134.7	137.3	205.9	302.5	246.6	183.0	144.9	139.8	129.7
82.5°	218.6	116.9	94.1	91.5	127.1	246.6	223.7	144.9	111.9	111.9	94.1
85°	66.1	61.0	61.0	58.5	63.6	127.1	172.9	99.2	76.3	53.4	45.8
87.5°	17.8	25.4	22.9	20.3	20.3	17.8	55.9	25.4	15.3	7.6	5.1
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)