

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: P595353

Luminaire Tested: **IST-PA1F-727-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595353  
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-727-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 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: 9482 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - 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

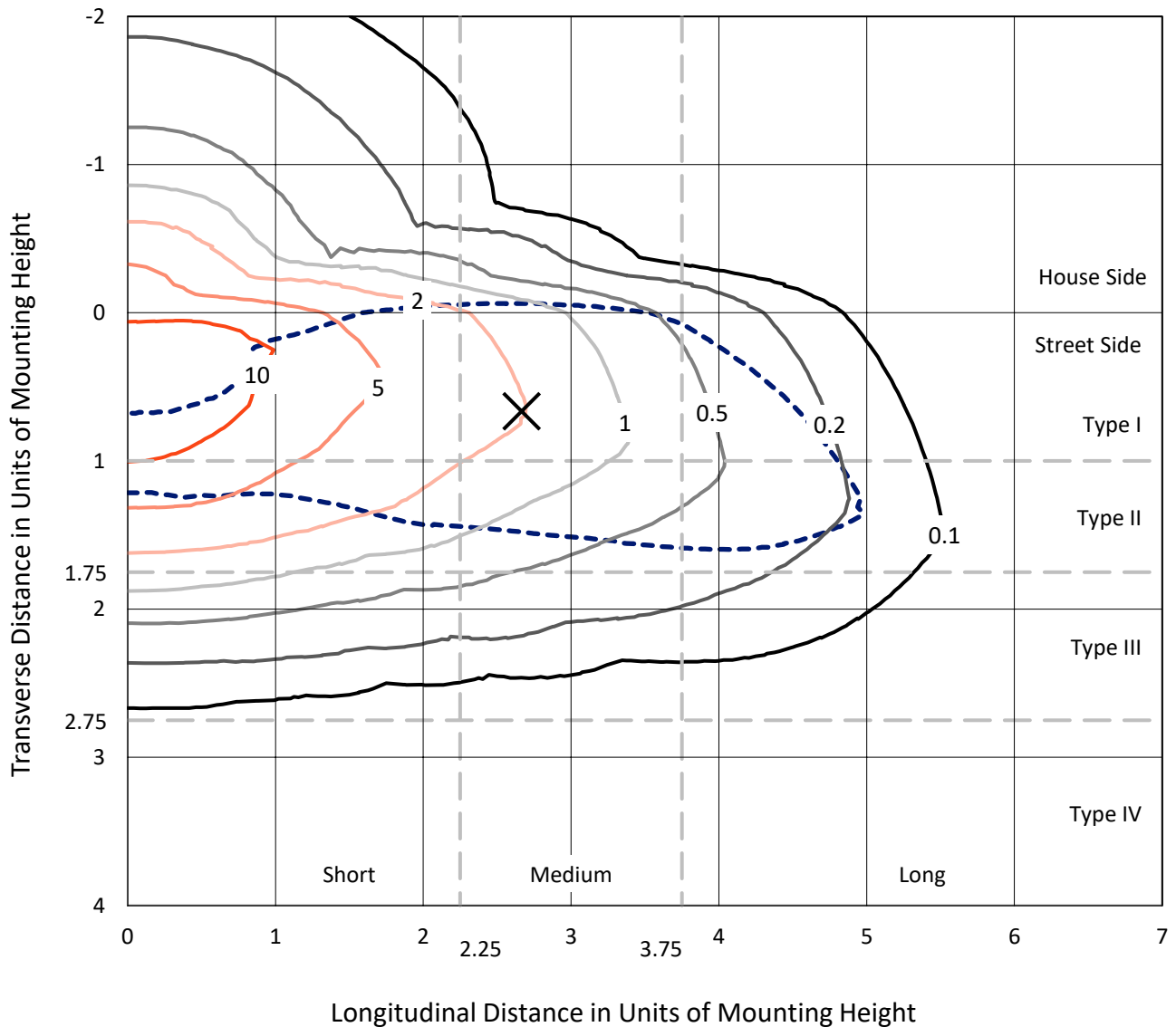




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### Iso-Footcandle Lines of Horizontal Illumination

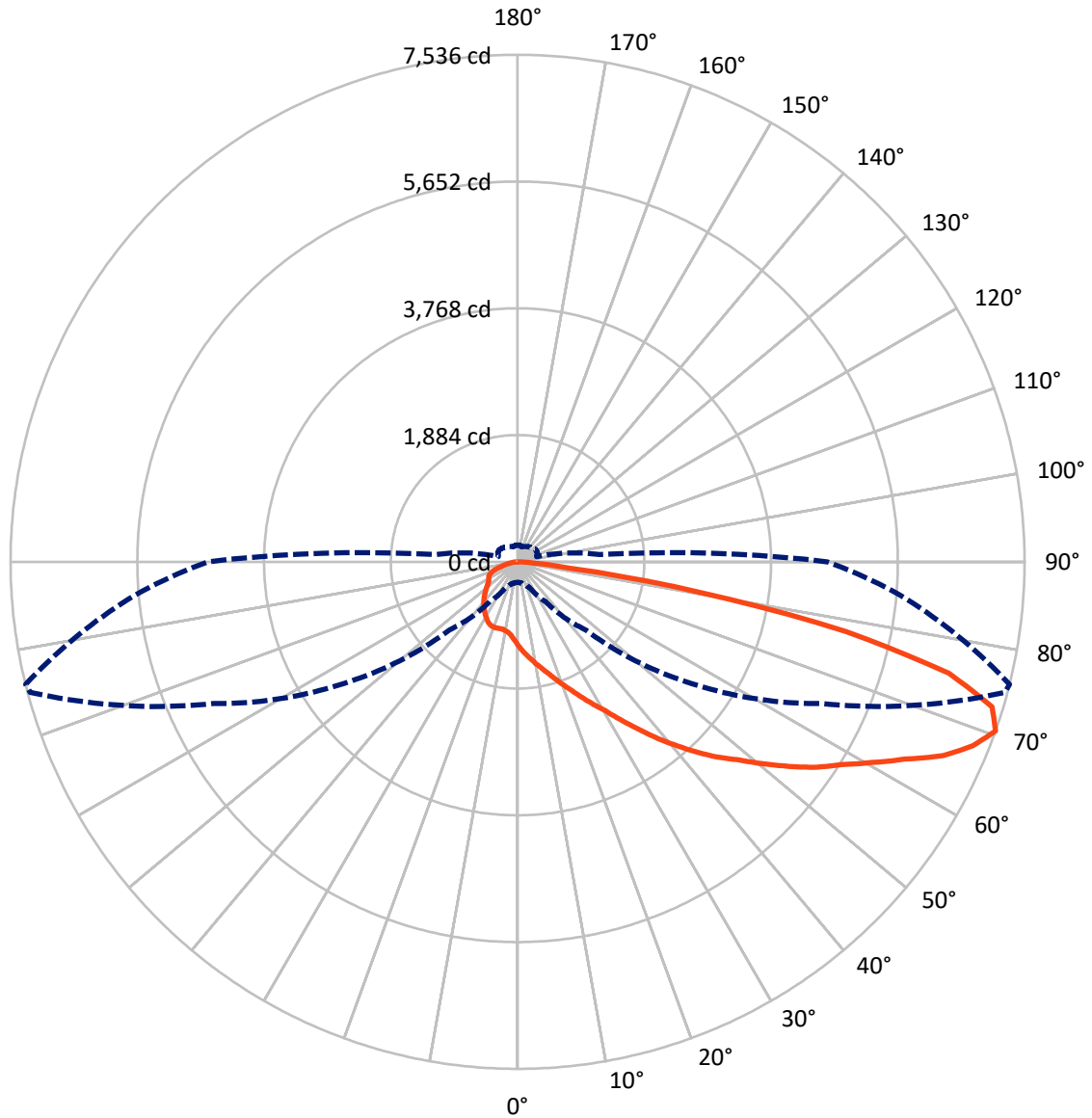
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15 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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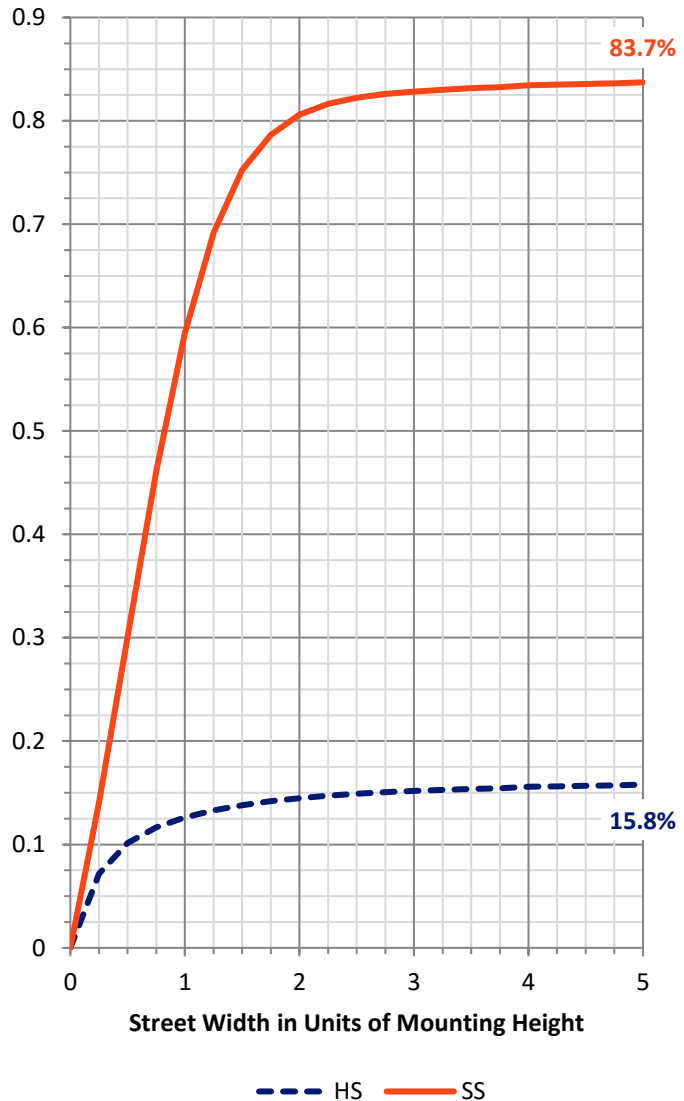
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1520.8	0.0	1520.8
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	7961.2	0.0	7961.2
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	9482.0	0.0	9482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	1.3
10°-20°	400.1	4.2
20°-30°	737.3	7.8
30°-40°	1235.2	13.0
40°-50°	1755.2	18.5
50°-60°	2026.5	21.4
60°-70°	1862.9	19.6
70°-80°	1174.6	12.4
80°-90°	168.9	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°	9482.0	100.0
0°-180°	9482.0	100.0

**Coefficient of Utilization**

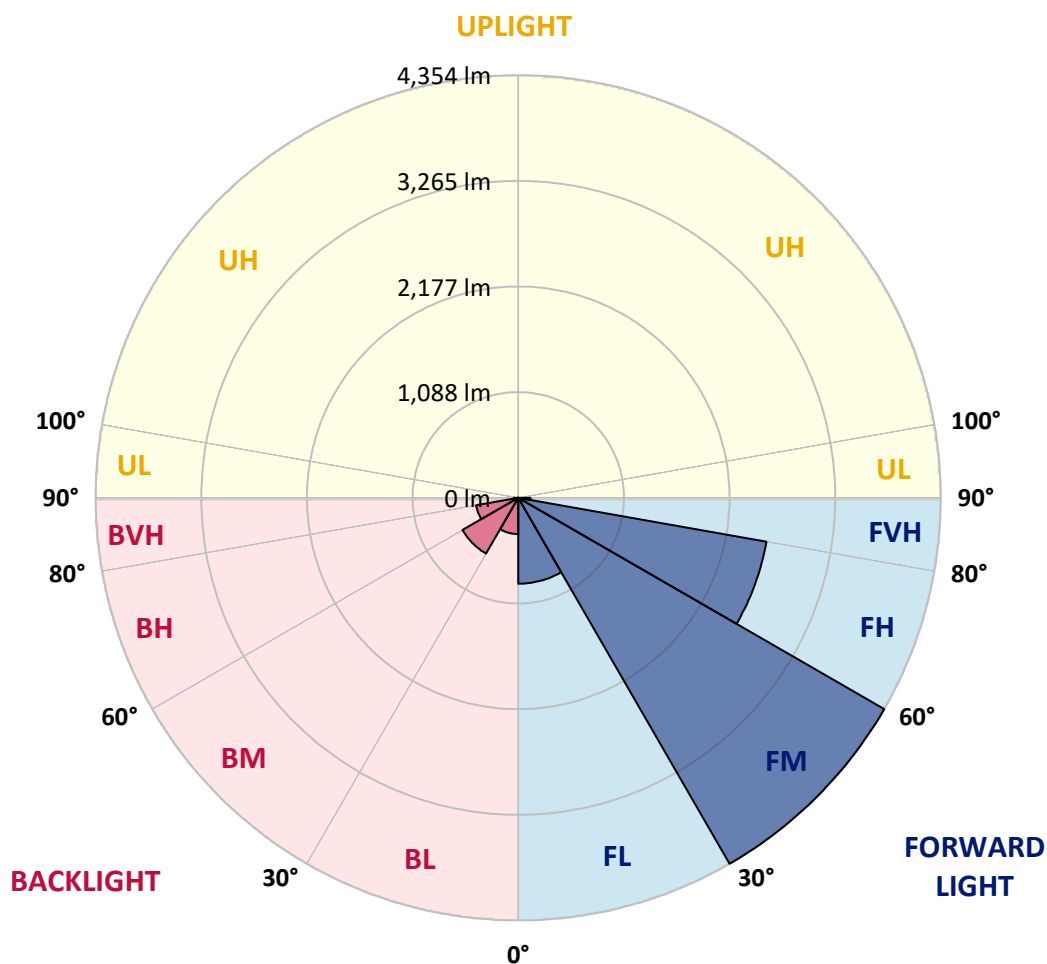


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.3	9.3			
FM (30°-60°)	4353.9	45.9			
FH (60°-80°)	2596.8	27.4			G2/5000
FVH (80°-90°)	125.2	1.3			G2/225
BL (0°-30°)	373.3	3.9	B1/500		
BM (30°-60°)	663.0	7.0	B1/1000		
BH (60°-80°)	440.8	4.6	B1/500		G1/500
BVH (80°-90°)	43.7	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°	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9
2.5°	1497.2	1495.0	1488.1	1476.7	1467.6	1440.2	1403.7	1371.7	1323.8	1319.2	1271.3
5°	1631.9	1622.8	1622.8	1611.4	1599.9	1570.3	1524.6	1467.6	1399.1	1394.5	1303.2
7.5°	1695.8	1698.1	1693.5	1684.4	1686.7	1661.6	1620.5	1563.4	1469.9	1465.3	1346.6
10°	1787.1	1784.8	1775.7	1768.8	1766.6	1743.7	1707.2	1654.7	1556.6	1547.5	1396.8
12.5°	1876.1	1869.3	1871.6	1869.3	1864.7	1841.9	1807.6	1755.2	1634.2	1629.6	1458.4
15°	1926.3	1924.0	1940.0	1944.6	1962.8	1942.3	1912.6	1853.3	1743.7	1725.5	1531.5
17.5°	1958.3	1956.0	1972.0	2008.5	2042.7	2042.7	2033.6	1969.7	1848.7	1835.0	1613.6
20°	2013.1	2022.2	2049.6	2079.2	2129.5	2138.6	2136.3	2108.9	1969.7	1956.0	1704.9
22.5°	2122.6	2118.0	2140.9	2186.5	2232.2	2245.9	2248.1	2248.1	2108.9	2083.8	1798.5
25°	2357.7	2346.3	2328.0	2323.5	2378.2	2376.0	2369.1	2385.1	2255.0	2236.7	1905.8
27.5°	2805.0	2779.9	2709.2	2567.7	2535.7	2547.1	2512.9	2515.2	2421.6	2398.8	1997.1
30°	3229.6	3218.2	3152.0	2980.8	2800.5	2736.6	2677.2	2652.1	2606.5	2567.7	2095.2
32.5°	3613.0	3615.3	3535.4	3348.3	3163.4	2962.5	2859.8	2807.3	2825.6	2791.4	2229.9
35°	3873.2	3852.7	3802.4	3676.9	3476.1	3284.3	3088.1	2971.7	3069.8	3031.0	2364.5
37.5°	4026.1	4010.1	3969.1	3880.0	3779.6	3594.7	3346.0	3167.9	3359.7	3302.6	2535.7
40°	4103.7	4080.9	4039.8	4003.3	3955.4	3854.9	3635.8	3391.6	3624.4	3574.2	2704.6
42.5°	4112.8	4096.9	4074.0	4055.8	4071.8	4058.1	3918.8	3651.8	3902.9	3848.1	2898.6
45°	4106.0	4117.4	4090.0	4058.1	4090.0	4206.4	4206.4	3912.0	4179.0	4138.0	3083.5
47.5°	4110.6	4099.2	4090.0	4080.9	4085.5	4245.2	4405.0	4156.2	4443.8	4395.9	3300.3
50°	3921.1	3937.1	4014.7	4048.9	4069.5	4254.4	4564.8	4421.0	4772.5	4713.1	3542.3
52.5°	3318.6	3327.7	3681.5	3937.1	4019.3	4217.8	4676.6	4715.4	5096.6	5050.9	3802.4
55°	2556.3	2604.2	2939.7	3565.1	3905.2	4156.2	4710.8	4907.1	5427.5	5391.0	4064.9
57.5°	2104.4	2111.2	2305.2	2864.4	3544.5	4099.2	4745.1	5082.9	5724.2	5683.1	4338.8
60°	1746.0	1730.0	1848.7	2209.3	2944.3	3870.9	4751.9	5222.1	6068.8	6055.2	4621.8
62.5°	1282.7	1301.0	1415.1	1720.9	2302.9	3407.6	4717.7	5340.8	6479.7	6461.4	4936.8
65°	787.4	810.2	949.5	1230.2	1743.7	2704.6	4494.0	5402.4	6911.0	6952.1	5276.9
67.5°	417.7	433.7	515.8	744.1	1196.0	2061.0	3955.4	5324.8	7276.2	7294.5	5603.2
70°	305.8	308.1	335.5	420.0	721.2	1433.3	3149.7	4987.0	7499.9	7536.4	5710.5
72.5°	267.0	269.3	280.7	301.3	392.6	874.2	2257.3	4398.1	7406.3	7374.4	5530.2
75°	241.9	241.9	251.1	257.9	287.6	483.9	1383.1	3599.3	6691.9	6621.2	4715.4
77.5°	207.7	207.7	216.8	226.0	248.8	312.7	723.5	2668.1	5117.1	4996.1	3225.0
80°	166.6	166.6	178.0	189.4	219.1	235.1	353.8	1784.8	2926.0	2748.0	1467.6
82.5°	114.1	123.2	143.8	157.5	182.6	166.6	207.7	771.4	922.1	798.8	330.9
85°	68.5	73.0	102.7	118.7	136.9	89.0	127.8	296.7	276.2	241.9	75.3
87.5°	6.8	11.4	41.1	47.9	47.9	25.1	54.8	70.8	79.9	82.2	18.3
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°	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9	1243.9
2.5°	1243.9	1216.5	1164.0	1116.1	1068.2	1036.2	1004.2	992.8	976.9	965.4	974.6
5°	1255.3	1198.2	1097.8	1013.4	956.3	913.0	892.4	881.0	871.9	869.6	867.3
7.5°	1269.0	1184.6	1049.9	956.3	901.5	881.0	876.4	876.4	876.4	878.7	881.0
10°	1298.7	1189.1	1024.8	924.4	894.7	890.1	892.4	901.5	901.5	903.8	903.8
12.5°	1332.9	1200.5	1006.5	919.8	901.5	903.8	906.1	910.7	910.7	917.5	915.2
15°	1383.1	1223.4	1004.2	924.4	908.4	903.8	903.8	901.5	901.5	901.5	906.1
17.5°	1447.0	1255.3	1006.5	924.4	901.5	892.4	885.6	878.7	869.6	874.2	869.6
20°	1510.9	1294.1	1006.5	913.0	883.3	860.5	839.9	828.5	817.1	814.8	817.1
22.5°	1590.8	1339.8	995.1	887.8	844.5	812.5	782.9	766.9	748.6	741.8	737.2
25°	1659.3	1376.3	972.3	851.3	801.1	755.5	716.7	689.3	666.5	661.9	661.9
27.5°	1730.0	1408.2	938.1	805.7	739.5	689.3	645.9	611.7	588.9	586.6	584.3
30°	1796.2	1435.6	892.4	755.5	684.7	625.4	575.2	545.5	524.9	513.5	506.7
32.5°	1883.0	1472.1	849.0	705.3	620.8	561.5	515.8	490.7	463.3	445.1	438.2
35°	1992.5	1515.5	801.1	650.5	563.7	504.4	477.0	440.5	406.3	385.7	378.9
37.5°	2115.8	1577.1	750.9	593.4	506.7	463.3	447.3	390.3	353.8	346.9	344.6
40°	2268.7	1636.5	693.8	534.1	451.9	440.5	413.1	353.8	335.5	333.2	330.9
42.5°	2421.6	1700.4	639.1	474.7	408.5	413.1	374.3	344.6	328.7	324.1	321.8
45°	2599.6	1764.3	584.3	422.2	374.3	374.3	353.8	335.5	321.8	317.3	317.3
47.5°	2786.8	1828.2	524.9	376.6	349.2	335.5	337.8	324.1	315.0	310.4	308.1
50°	3021.9	1889.8	470.2	344.6	333.2	315.0	321.8	312.7	308.1	303.6	301.3
52.5°	3243.3	1917.2	420.0	326.4	324.1	305.8	308.1	303.6	301.3	294.4	292.1
55°	3460.1	1910.4	381.2	317.3	312.7	303.6	299.0	296.7	294.4	287.6	285.3
57.5°	3702.0	1901.2	356.1	315.0	305.8	296.7	296.7	289.9	280.7	280.7	280.7
60°	3953.1	1871.6	344.6	315.0	303.6	296.7	292.1	285.3	276.2	278.5	276.2
62.5°	4236.1	1814.5	337.8	321.8	305.8	294.4	289.9	280.7	269.3	271.6	269.3
65°	4484.9	1698.1	333.2	328.7	310.4	296.7	285.3	273.9	260.2	262.5	260.2
67.5°	4653.8	1501.8	319.5	333.2	317.3	294.4	280.7	264.8	246.5	255.6	253.3
70°	4605.8	1221.1	294.4	324.1	324.1	296.7	273.9	253.3	232.8	251.1	244.2
72.5°	4233.8	917.5	246.5	292.1	319.5	296.7	260.2	235.1	216.8	228.2	214.5
75°	3476.1	623.1	196.3	232.8	299.0	299.0	248.8	216.8	194.0	187.2	182.6
77.5°	2168.3	388.0	152.9	171.2	251.1	296.7	237.4	194.0	162.0	157.5	152.9
80°	858.2	207.7	121.0	123.2	184.9	271.6	221.4	164.3	130.1	125.5	116.4
82.5°	196.3	105.0	84.4	82.2	114.1	221.4	200.8	130.1	100.4	100.4	84.4
85°	59.3	54.8	54.8	52.5	57.1	114.1	155.2	89.0	68.5	47.9	41.1
87.5°	16.0	22.8	20.5	18.3	18.3	16.0	50.2	22.8	13.7	6.8	4.6
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)