

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: P595303

Luminaire Tested: **IST-PA1E-740-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1E-740-U-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10143 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

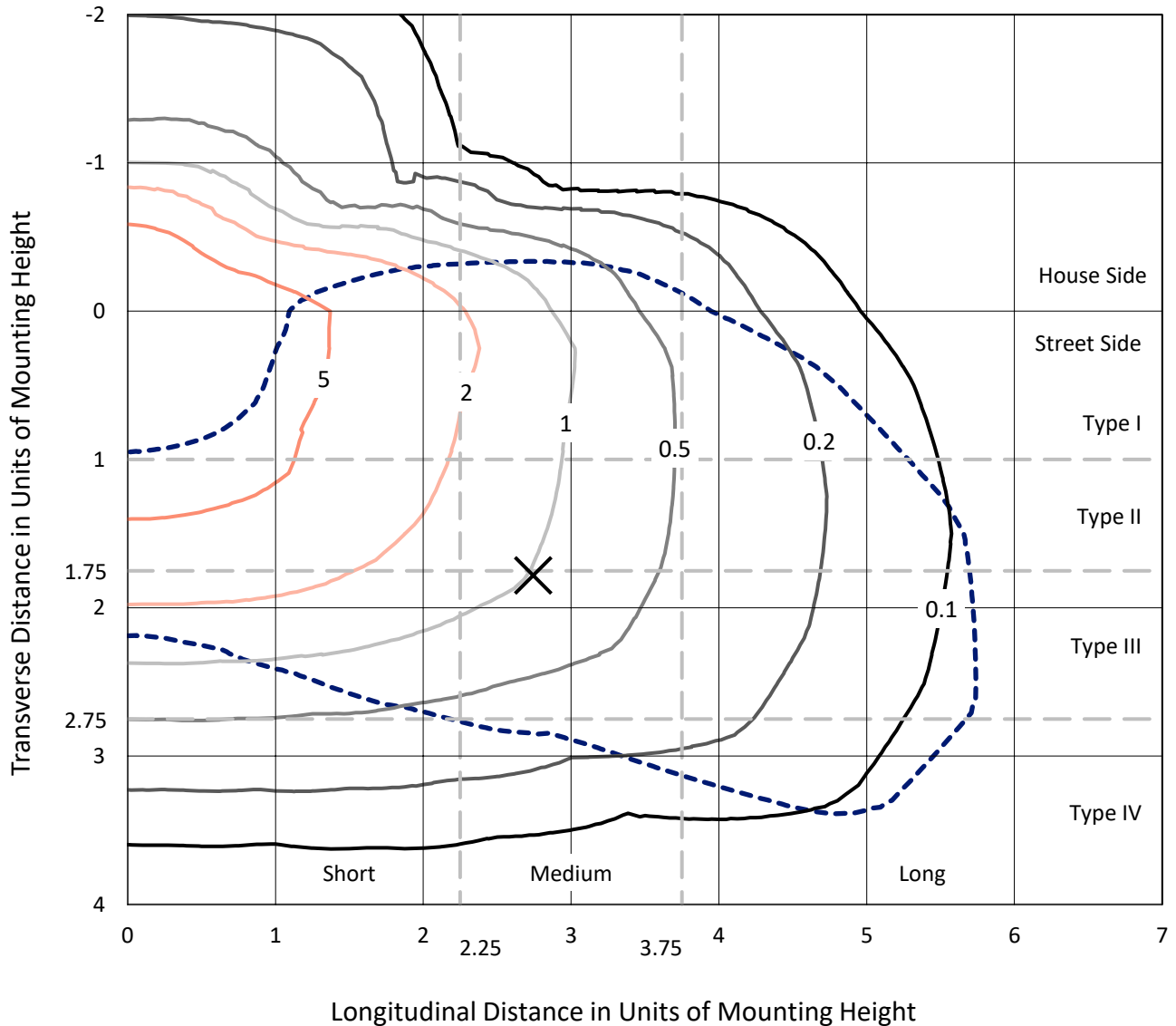
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

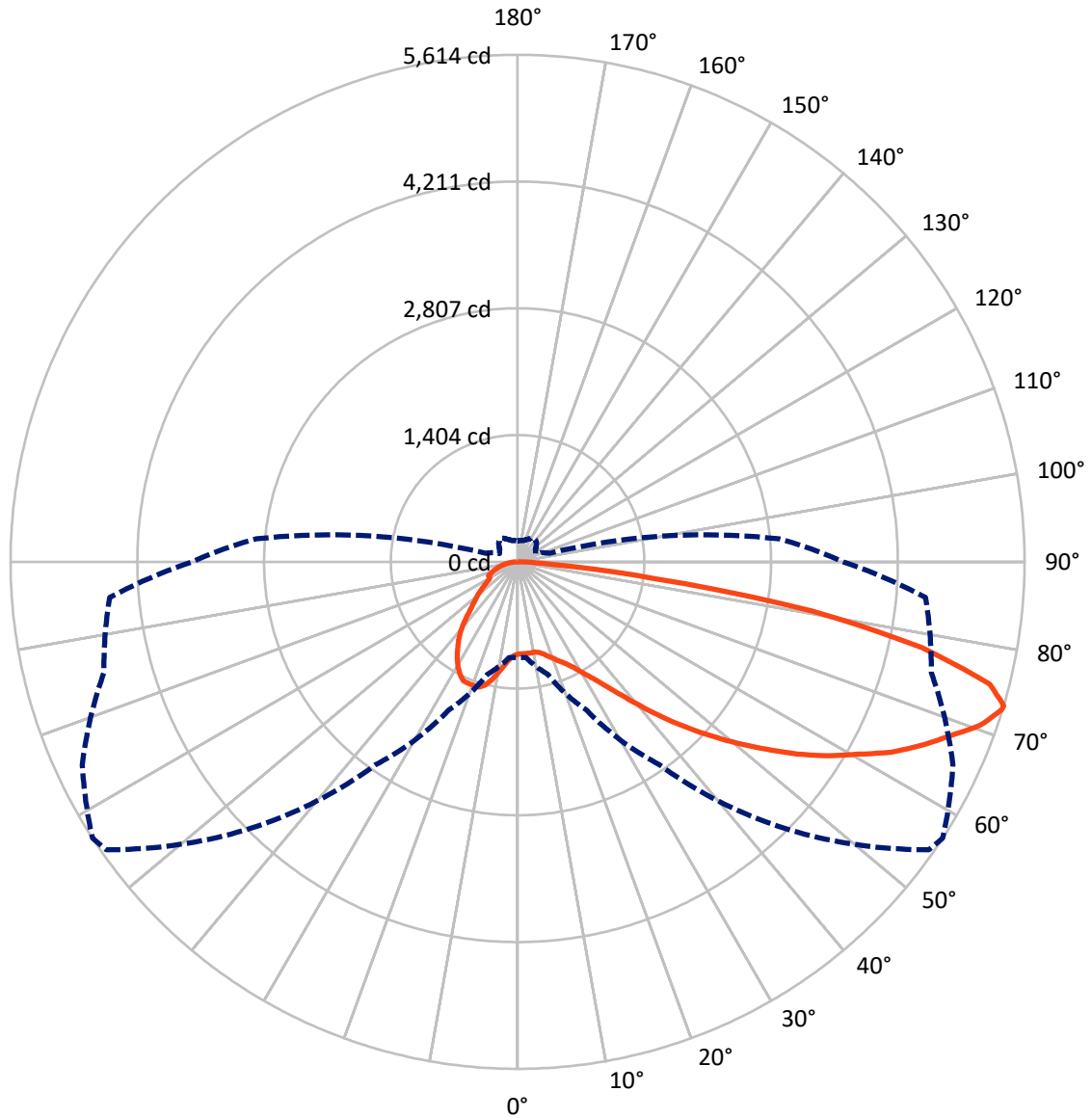
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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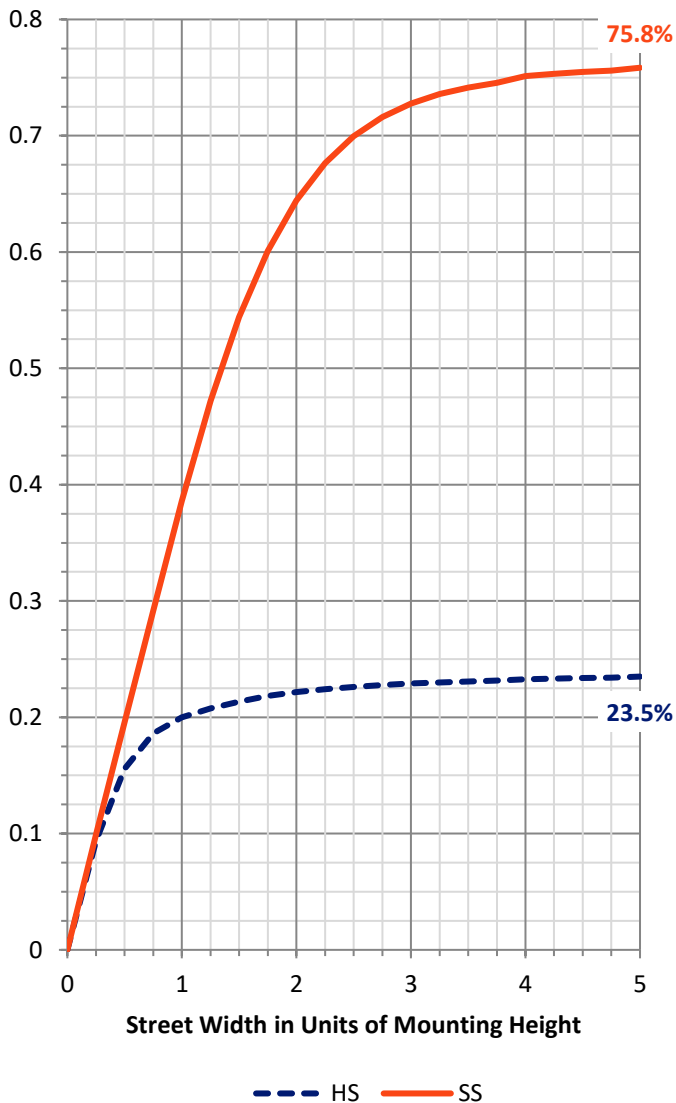
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2419.8	0.0	2419.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7723.2	0.0	7723.2
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	10143.0	0.0	10143.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	1.0
10°-20°	335.6	3.3
20°-30°	619.5	6.1
30°-40°	956.5	9.4
40°-50°	1439.8	14.2
50°-60°	2107.3	20.8
60°-70°	2488.5	24.5
70°-80°	1781.7	17.6
80°-90°	312.2	3.1
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°	10143.0	100.0
0°-180°	10143.0	100.0

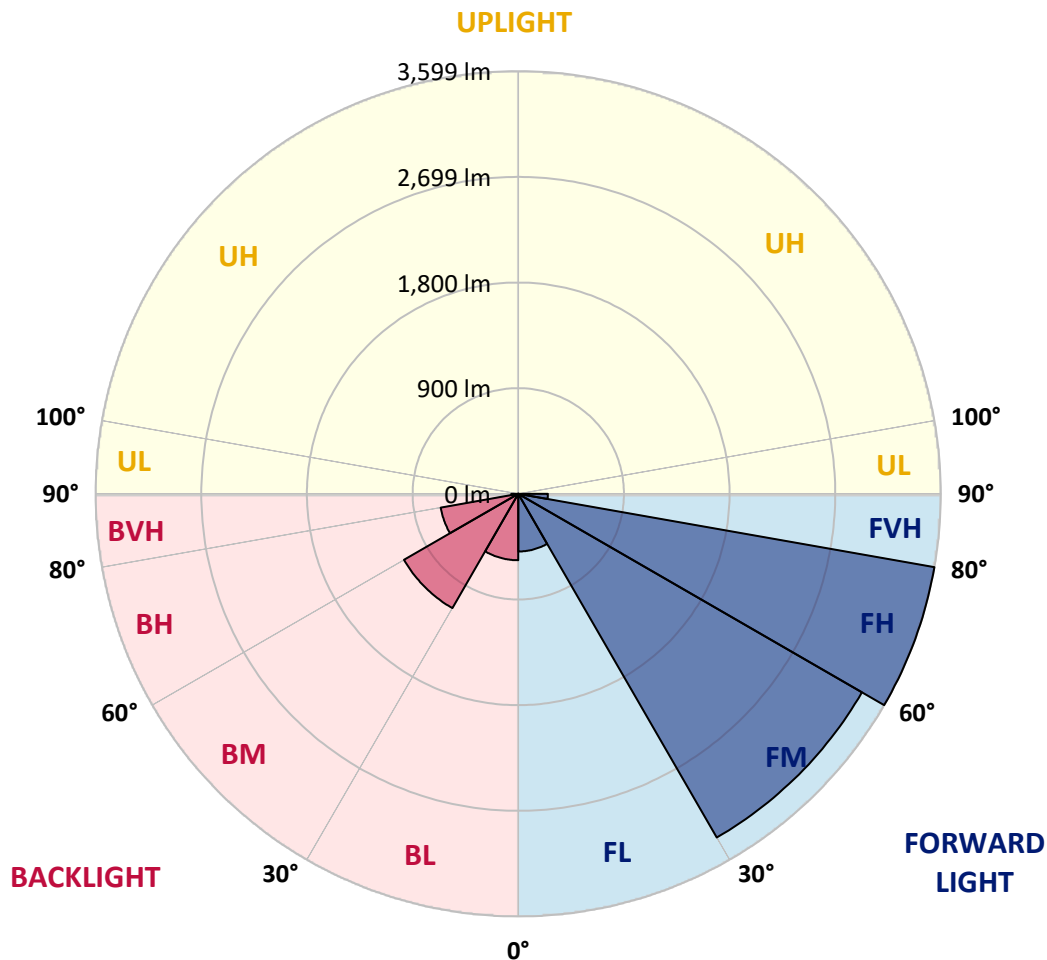


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.5	4.8			
FM (30°-60°)	3379.9	33.3			
FH (60°-80°)	3599.3	35.5			G2/5000
FVH (80°-90°)	252.6	2.5			G3/500
BL (0°-30°)	565.5	5.6	B2/1000		
BM (30°-60°)	1123.7	11.1	B2/2500		
BH (60°-80°)	670.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	59.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1009.5	1014.5	1012.0	1014.5	1021.9	1016.9	1016.9	1019.4	1021.9	1019.4	1024.4
5°	967.2	969.7	974.7	984.6	1002.0	1007.0	1019.4	1019.4	1024.4	1029.4	1036.8
7.5°	897.6	902.6	912.5	922.5	952.3	982.1	1014.5	1019.4	1036.8	1049.3	1054.2
10°	885.2	890.1	892.6	907.5	937.4	967.2	1007.0	1016.9	1049.3	1069.2	1091.5
12.5°	872.7	877.7	885.2	905.1	942.3	974.7	1016.9	1026.9	1066.7	1106.4	1133.8
15°	882.7	885.2	892.6	912.5	949.8	994.6	1049.3	1056.7	1101.5	1151.2	1193.5
17.5°	907.5	910.0	907.5	924.9	959.8	1012.0	1086.6	1099.0	1153.7	1203.4	1245.7
20°	964.7	967.2	957.3	957.3	982.1	1034.3	1126.3	1143.7	1210.9	1265.6	1307.8
22.5°	1089.0	1084.1	1059.2	1026.9	1026.9	1069.2	1171.1	1196.0	1280.5	1325.3	1362.5
25°	1265.6	1265.6	1225.8	1166.1	1126.3	1121.4	1223.3	1250.7	1350.1	1404.8	1427.2
27.5°	1479.4	1481.9	1417.2	1337.7	1260.6	1223.3	1297.9	1325.3	1437.1	1494.3	1501.8
30°	1668.4	1670.9	1606.2	1531.6	1437.1	1355.1	1397.4	1427.2	1556.5	1601.2	1576.4
32.5°	1857.3	1859.8	1815.1	1713.1	1613.7	1511.7	1524.2	1541.6	1673.3	1715.6	1675.8
35°	2021.4	2028.9	1984.1	1907.1	1802.6	1710.6	1688.3	1690.8	1810.1	1837.5	1785.2
37.5°	2188.0	2188.0	2160.7	2088.6	1999.1	1897.1	1867.3	1874.7	1981.7	2009.0	1934.4
40°	2399.4	2409.3	2394.4	2304.9	2203.0	2118.4	2088.6	2098.5	2215.4	2200.5	2120.9
42.5°	2655.5	2677.9	2653.0	2556.0	2446.6	2352.1	2352.1	2352.1	2451.6	2454.1	2334.7
45°	2983.7	2983.7	2958.8	2874.3	2730.1	2635.6	2603.3	2610.7	2697.7	2707.7	2568.5
47.5°	3257.2	3282.1	3254.7	3192.5	3078.2	2988.7	2886.7	2874.3	2946.4	2946.4	2827.0
50°	3478.5	3523.2	3500.9	3528.2	3446.2	3401.4	3192.5	3157.7	3182.6	3207.5	3075.7
52.5°	3662.5	3697.3	3689.8	3769.4	3809.2	3834.0	3503.3	3448.6	3468.5	3466.0	3346.7
55°	3674.9	3687.3	3799.2	3978.2	4134.9	4251.7	3816.6	3757.0	3737.1	3727.1	3635.1
57.5°	3602.8	3610.3	3834.0	4045.4	4386.0	4520.3	4112.5	4052.8	4025.5	3990.7	3953.4
60°	3428.7	3466.0	3759.4	4085.2	4535.2	4729.1	4388.5	4326.3	4306.4	4231.9	4316.4
62.5°	3207.5	3224.9	3518.3	4003.1	4555.1	4818.6	4679.4	4642.1	4580.0	4473.0	4639.6
65°	2894.2	2891.7	3150.3	3761.9	4453.1	4863.4	4925.6	4905.7	4828.6	4644.6	4928.1
67.5°	2377.0	2434.2	2687.8	3334.3	4207.0	4908.2	5176.7	5151.8	5030.0	4798.8	5064.8
70°	1812.6	1847.4	2135.8	2692.8	3717.2	4786.3	5422.8	5430.3	5209.0	4831.1	5005.1
72.5°	1156.2	1215.9	1444.6	1961.8	2976.2	4333.8	5569.5	5604.4	5308.5	4786.3	4634.7
73°	1059.2	1064.2	1288.0	1815.1	2745.0	4172.2	5559.6	5614.3	5318.4	4741.6	4532.7
75°	631.5	658.9	793.2	1205.9	1959.3	3351.7	5291.1	5400.5	5266.2	4542.7	3973.3
77.5°	295.9	315.8	390.4	636.5	1066.7	2016.5	4448.2	4577.5	4667.0	3975.8	3028.4
80°	156.6	159.1	191.5	320.7	571.9	830.5	3100.5	3314.4	3441.2	2993.6	2036.4
82.5°	131.8	131.8	149.2	206.4	365.5	323.2	1278.0	1521.7	1864.8	1474.4	800.6
85°	106.9	109.4	149.2	154.2	261.1	166.6	305.8	382.9	723.5	651.4	89.5
87.5°	34.8	39.8	84.5	109.4	139.2	64.6	77.1	84.5	84.5	124.3	29.8
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°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1026.9	1026.9	1029.4	1031.9	1036.8	1036.8	1041.8	1044.3	1049.3	1051.7	1044.3
5°	1036.8	1041.8	1046.8	1061.7	1079.1	1094.0	1108.9	1121.4	1133.8	1141.3	1138.8
7.5°	1064.2	1071.6	1091.5	1118.9	1153.7	1176.1	1198.4	1220.8	1230.8	1235.7	1235.7
10°	1101.5	1116.4	1153.7	1198.4	1238.2	1273.0	1290.4	1305.4	1310.3	1315.3	1310.3
12.5°	1153.7	1173.6	1230.8	1288.0	1332.7	1350.1	1347.6	1327.7	1300.4	1295.4	1290.4
15°	1220.8	1245.7	1310.3	1377.5	1412.3	1389.9	1332.7	1312.8	1307.8	1322.8	1317.8
17.5°	1278.0	1307.8	1387.4	1457.0	1449.6	1372.5	1355.1	1365.0	1360.1	1362.5	1362.5
20°	1332.7	1375.0	1459.5	1506.8	1442.1	1392.4	1377.5	1365.0	1350.1	1355.1	1350.1
22.5°	1402.3	1432.2	1529.1	1531.6	1432.2	1392.4	1360.1	1335.2	1330.2	1332.7	1335.2
25°	1457.0	1504.3	1588.8	1514.2	1432.2	1352.6	1307.8	1302.9	1305.4	1320.3	1315.3
27.5°	1531.6	1578.9	1636.1	1504.3	1372.5	1288.0	1270.6	1268.1	1250.7	1255.6	1255.6
30°	1601.2	1658.4	1660.9	1504.3	1297.9	1233.3	1208.4	1163.6	1126.3	1133.8	1131.3
32.5°	1695.7	1745.5	1665.9	1444.6	1213.4	1161.2	1094.0	1024.4	1007.0	1016.9	1019.4
35°	1805.1	1844.9	1670.9	1345.1	1128.8	1059.2	937.4	897.6	895.1	902.6	910.0
37.5°	1949.3	1971.7	1708.2	1230.8	1046.8	900.1	805.6	795.6	773.3	758.4	760.8
40°	2125.9	2098.5	1780.3	1128.8	949.8	755.9	716.1	688.7	646.5	604.2	611.7
42.5°	2322.3	2245.2	1802.6	1046.8	818.0	666.4	629.1	586.8	534.6	489.8	487.3
45°	2533.6	2409.3	1782.8	982.1	686.2	599.2	559.4	509.7	447.6	410.3	410.3
47.5°	2784.8	2566.0	1720.6	929.9	594.3	539.5	489.8	440.1	397.8	363.0	363.0
50°	3060.8	2747.5	1675.8	837.9	529.6	482.4	432.6	392.9	360.5	333.2	333.2
52.5°	3351.7	2919.0	1638.5	703.7	472.4	430.1	395.3	363.0	335.7	300.9	295.9
55°	3647.6	3083.1	1655.9	574.4	420.2	392.9	370.5	338.2	328.2	320.7	315.8
57.5°	3955.9	3262.2	1698.2	469.9	375.4	373.0	363.0	385.4	407.8	392.9	385.4
60°	4197.0	3401.4	1703.2	395.3	348.1	392.9	442.6	450.0	390.4	355.6	353.1
62.5°	4388.5	3533.2	1586.3	343.1	355.6	462.5	472.4	397.8	338.2	323.2	323.2
65°	4488.0	3580.4	1275.5	313.3	370.5	442.6	427.7	358.0	315.8	313.3	313.3
67.5°	4438.2	3543.1	892.6	281.0	328.2	382.9	382.9	328.2	290.9	303.3	298.4
70°	4199.5	3359.1	589.3	253.6	288.4	345.6	355.6	305.8	271.0	278.5	271.0
72.5°	3702.3	3030.9	387.9	223.8	248.6	305.8	330.7	281.0	248.6	246.2	238.7
73°	3605.3	2906.6	365.5	218.8	241.2	295.9	323.2	276.0	243.7	236.2	231.2
75°	3058.3	2424.2	276.0	196.4	213.8	266.0	300.9	258.6	223.8	213.8	208.9
77.5°	2227.8	1680.8	206.4	166.6	179.0	231.2	266.0	236.2	198.9	186.5	184.0
80°	1389.9	915.0	154.2	134.3	141.7	193.9	233.7	211.3	171.6	156.6	154.2
82.5°	544.5	298.4	106.9	99.5	104.4	146.7	196.4	184.0	144.2	131.8	124.3
85°	89.5	101.9	69.6	67.1	67.1	104.4	149.2	141.7	97.0	84.5	74.6
87.5°	24.9	47.2	27.4	24.9	24.9	44.8	82.1	64.6	39.8	32.3	29.8
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)