

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: P594804

Luminaire Tested: **ISS-PA1E-740-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594804
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: ISS-PA1E-740-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10721 lumens
Efficiency: N/A
Efficacy: 130.1 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

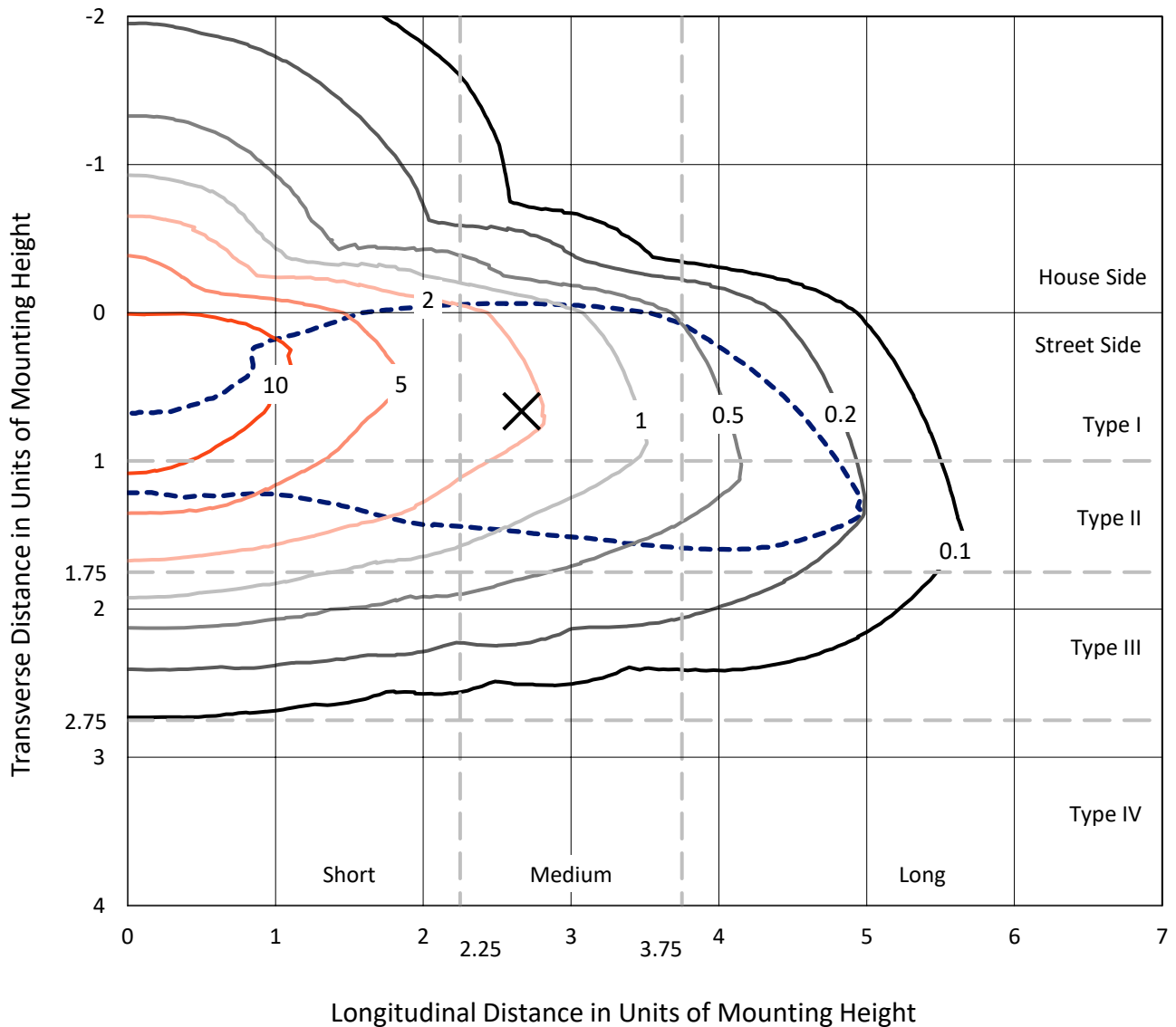
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

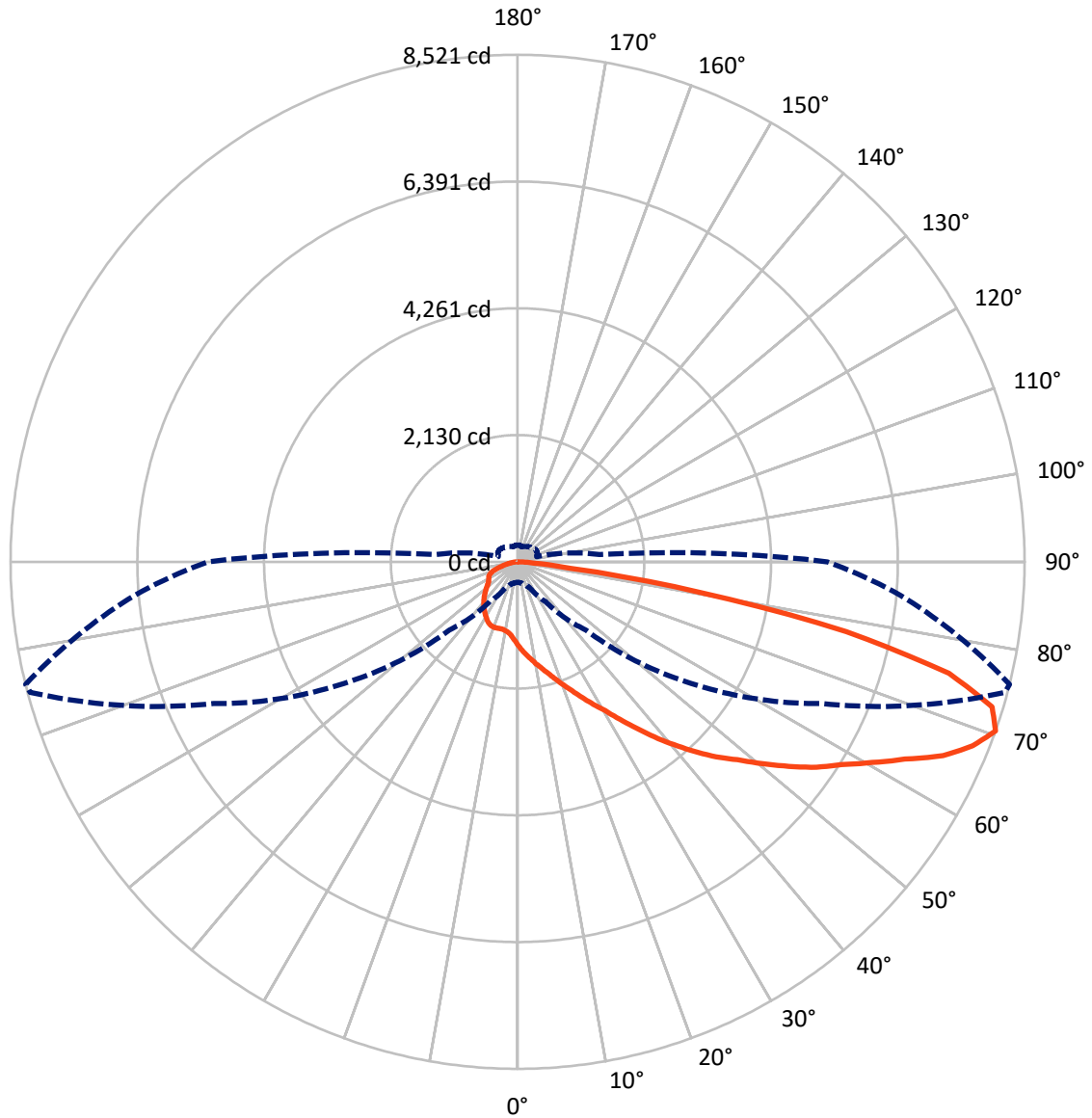
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.9 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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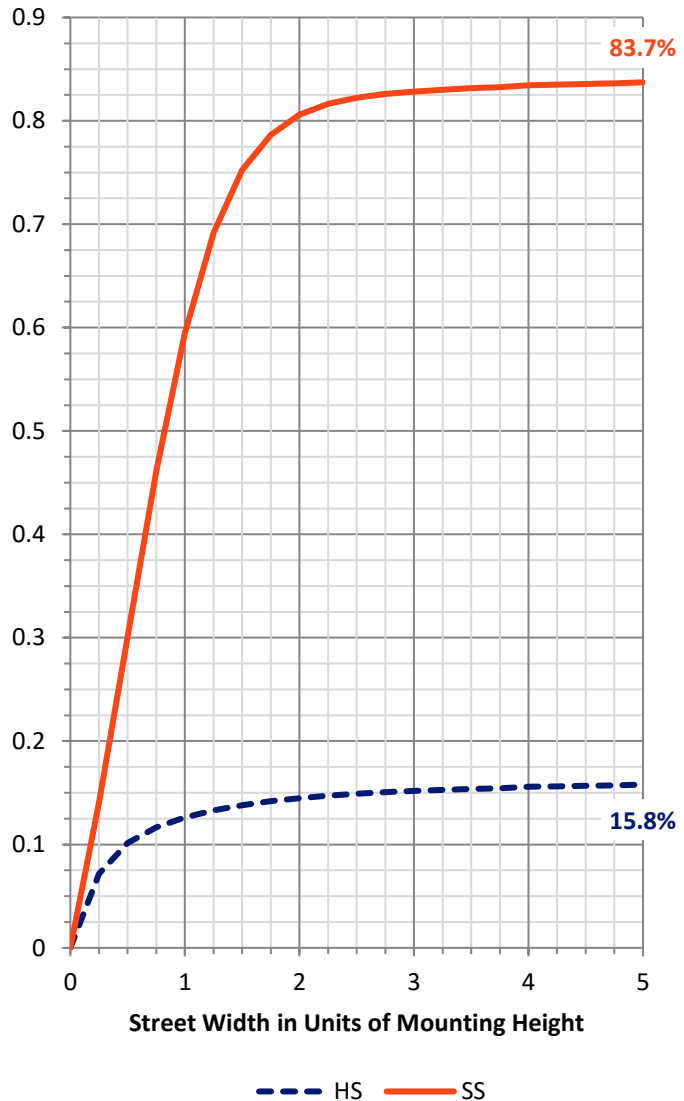
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1719.5	0.0	1719.5
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	9001.4	0.0	9001.4
	% Fixture	84.0	0.0	84.0
Total	Lumens	10721.0	0.0	10721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	1.3
10°-20°	452.3	4.2
20°-30°	833.6	7.8
30°-40°	1396.7	13.0
40°-50°	1984.5	18.5
50°-60°	2291.3	21.4
60°-70°	2106.3	19.6
70°-80°	1328.1	12.4
80°-90°	191.0	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°	10721.0	100.0
0°-180°	10721.0	100.0

Coefficient of Utilization

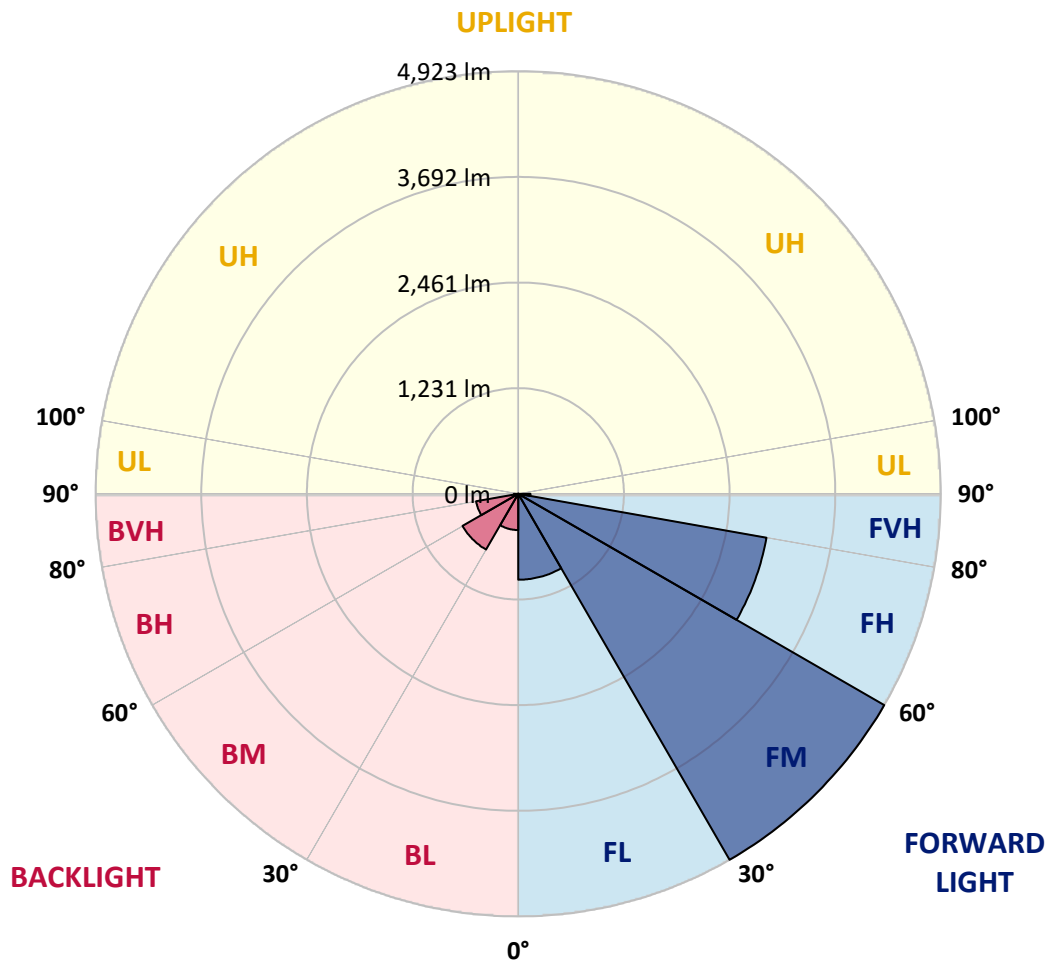


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.9	9.3			
FM (30°-60°)	4922.8	45.9			
FH (60°-80°)	2936.1	27.4			G2/5000
FVH (80°-90°)	141.6	1.3			G2/225
BL (0°-30°)	422.1	3.9	B1/500		
BM (30°-60°)	749.7	7.0	B1/1000		
BH (60°-80°)	498.4	4.6	B1/500		G1/500
BVH (80°-90°)	49.4	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°	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4
2.5°	1692.9	1690.3	1682.6	1669.7	1659.3	1628.4	1587.1	1550.9	1496.8	1491.6	1437.4
5°	1845.1	1834.8	1834.8	1821.9	1809.0	1775.5	1723.9	1659.3	1581.9	1576.8	1473.5
7.5°	1917.4	1920.0	1914.8	1904.5	1907.1	1878.7	1832.2	1767.7	1661.9	1656.8	1522.6
10°	2020.6	2018.0	2007.7	2000.0	1997.4	1971.6	1930.3	1870.9	1760.0	1749.7	1579.3
12.5°	2121.3	2113.5	2116.1	2113.5	2108.4	2082.6	2043.8	1984.5	1847.7	1842.6	1649.0
15°	2178.0	2175.5	2193.5	2198.7	2219.3	2196.1	2162.6	2095.5	1971.6	1950.9	1731.6
17.5°	2214.2	2211.6	2229.7	2270.9	2309.7	2309.7	2299.3	2227.1	2090.3	2074.8	1824.5
20°	2276.1	2286.4	2317.4	2350.9	2407.7	2418.0	2415.5	2384.5	2227.1	2211.6	1927.7
22.5°	2400.0	2394.8	2420.6	2472.2	2523.8	2539.3	2541.9	2541.9	2384.5	2356.1	2033.5
25°	2665.8	2652.9	2632.2	2627.1	2689.0	2686.4	2678.7	2696.7	2549.6	2529.0	2154.8
27.5°	3171.6	3143.2	3063.2	2903.2	2867.1	2880.0	2841.3	2843.8	2738.0	2712.2	2258.0
30°	3651.6	3638.7	3563.8	3370.3	3166.4	3094.2	3027.1	2998.7	2947.1	2903.2	2369.0
32.5°	4085.1	4087.7	3997.4	3785.8	3576.7	3349.6	3233.5	3174.2	3194.8	3156.1	2521.3
35°	4379.3	4356.1	4299.3	4157.4	3930.3	3713.5	3491.6	3360.0	3470.9	3427.1	2673.5
37.5°	4552.2	4534.1	4487.7	4387.0	4273.5	4064.5	3783.2	3581.9	3798.7	3734.2	2867.1
40°	4639.9	4614.1	4567.7	4526.4	4472.2	4358.7	4110.9	3834.8	4098.0	4041.2	3058.0
42.5°	4650.3	4632.2	4606.4	4585.8	4603.8	4588.3	4430.9	4129.0	4412.9	4350.9	3277.4
45°	4642.5	4655.4	4624.5	4588.3	4624.5	4756.1	4756.1	4423.2	4725.1	4678.7	3486.4
47.5°	4647.7	4634.8	4624.5	4614.1	4619.3	4799.9	4980.6	4699.3	5024.5	4970.3	3731.6
50°	4433.5	4451.6	4539.3	4578.0	4601.2	4810.3	5161.2	4998.7	5396.1	5329.0	4005.1
52.5°	3752.2	3762.5	4162.5	4451.6	4544.5	4769.0	5287.7	5331.6	5762.5	5710.9	4299.3
55°	2890.3	2944.5	3323.8	4030.9	4415.4	4699.3	5326.4	5548.3	6136.7	6095.4	4596.1
57.5°	2379.3	2387.1	2606.4	3238.7	4007.7	4634.8	5365.1	5747.0	6472.2	6425.7	4905.7
60°	1974.2	1956.1	2090.3	2498.0	3329.0	4376.7	5372.8	5904.4	6861.9	6846.4	5225.7
62.5°	1450.3	1471.0	1600.0	1945.8	2603.8	3852.9	5334.1	6038.6	7326.4	7305.7	5581.9
65°	890.3	916.1	1073.5	1391.0	1971.6	3058.0	5081.2	6108.3	7814.1	7860.6	5966.4
67.5°	472.3	490.3	583.2	841.3	1352.2	2330.3	4472.2	6020.6	8227.0	8247.6	6335.4
70°	345.8	348.4	379.4	474.8	815.5	1620.6	3561.2	5638.6	8479.9	8521.2	6456.7
72.5°	301.9	304.5	317.4	340.6	443.9	988.4	2552.2	4972.8	8374.1	8338.0	6252.8
75°	273.5	273.5	283.9	291.6	325.2	547.1	1563.9	4069.6	7566.4	7486.4	5331.6
77.5°	234.8	234.8	245.2	255.5	281.3	353.5	818.1	3016.7	5785.7	5649.0	3646.4
80°	188.4	188.4	201.3	214.2	247.7	265.8	400.0	2018.0	3308.3	3107.1	1659.3
82.5°	129.0	139.4	162.6	178.1	206.4	188.4	234.8	872.2	1042.6	903.2	374.2
85°	77.4	82.6	116.1	134.2	154.8	100.6	144.5	335.5	312.3	273.5	85.2
87.5°	7.7	12.9	46.5	54.2	54.2	28.4	61.9	80.0	90.3	92.9	20.6
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°	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4	1406.4
2.5°	1406.4	1375.5	1316.1	1261.9	1207.7	1171.6	1135.5	1122.6	1104.5	1091.6	1101.9
5°	1419.3	1354.8	1241.3	1145.8	1081.3	1032.2	1009.0	996.1	985.8	983.2	980.6
7.5°	1434.8	1339.3	1187.1	1081.3	1019.3	996.1	991.0	991.0	991.0	993.5	996.1
10°	1468.4	1344.5	1158.7	1045.1	1011.6	1006.4	1009.0	1019.3	1019.3	1021.9	1021.9
12.5°	1507.1	1357.4	1138.1	1040.0	1019.3	1021.9	1024.5	1029.7	1029.7	1037.4	1034.8
15°	1563.9	1383.2	1135.5	1045.1	1027.1	1021.9	1021.9	1019.3	1019.3	1019.3	1024.5
17.5°	1636.1	1419.3	1138.1	1045.1	1019.3	1009.0	1001.3	993.5	983.2	988.4	983.2
20°	1708.4	1463.2	1138.1	1032.2	998.7	972.9	949.7	936.8	923.9	921.3	923.9
22.5°	1798.7	1514.8	1125.1	1003.9	954.8	918.7	885.2	867.1	846.4	838.7	833.5
25°	1876.1	1556.1	1099.3	962.6	905.8	854.2	810.3	779.3	753.5	748.4	748.4
27.5°	1956.1	1592.2	1060.6	911.0	836.1	779.3	730.3	691.6	665.8	663.2	660.6
30°	2030.9	1623.2	1009.0	854.2	774.2	707.1	650.3	616.8	593.5	580.6	572.9
32.5°	2129.0	1664.5	960.0	797.4	701.9	634.8	583.2	554.8	523.9	503.2	495.5
35°	2252.9	1713.5	905.8	735.5	637.4	570.3	539.3	498.1	459.3	436.1	428.4
37.5°	2392.2	1783.2	849.0	671.0	572.9	523.9	505.8	441.3	400.0	392.3	389.7
40°	2565.1	1850.3	784.5	603.9	511.0	498.1	467.1	400.0	379.4	376.8	374.2
42.5°	2738.0	1922.6	722.6	536.8	461.9	467.1	423.2	389.7	371.6	366.4	363.9
45°	2939.3	1994.8	660.6	477.4	423.2	423.2	400.0	379.4	363.9	358.7	358.7
47.5°	3150.9	2067.1	593.5	425.8	394.8	379.4	381.9	366.4	356.1	351.0	348.4
50°	3416.7	2136.7	531.6	389.7	376.8	356.1	363.9	353.5	348.4	343.2	340.6
52.5°	3667.1	2167.7	474.8	369.0	366.4	345.8	348.4	343.2	340.6	332.9	330.3
55°	3912.2	2160.0	431.0	358.7	353.5	343.2	338.1	335.5	332.9	325.2	322.6
57.5°	4185.8	2149.7	402.6	356.1	345.8	335.5	335.5	327.7	317.4	317.4	317.4
60°	4469.6	2116.1	389.7	356.1	343.2	335.5	330.3	322.6	312.3	314.8	312.3
62.5°	4789.6	2051.6	381.9	363.9	345.8	332.9	327.7	317.4	304.5	307.1	304.5
65°	5070.9	1920.0	376.8	371.6	351.0	335.5	322.6	309.7	294.2	296.8	294.2
67.5°	5261.9	1698.0	361.3	376.8	358.7	332.9	317.4	299.4	278.7	289.0	286.4
70°	5207.7	1380.6	332.9	366.4	366.4	335.5	309.7	286.4	263.2	283.9	276.1
72.5°	4787.0	1037.4	278.7	330.3	361.3	335.5	294.2	265.8	245.2	258.1	242.6
75°	3930.3	704.5	221.9	263.2	338.1	338.1	281.3	245.2	219.4	211.6	206.4
77.5°	2451.6	438.7	172.9	193.5	283.9	335.5	268.4	219.4	183.2	178.1	172.9
80°	970.3	234.8	136.8	139.4	209.0	307.1	250.3	185.8	147.1	141.9	131.6
82.5°	221.9	118.7	95.5	92.9	129.0	250.3	227.1	147.1	113.5	113.5	95.5
85°	67.1	61.9	61.9	59.4	64.5	129.0	175.5	100.6	77.4	54.2	46.5
87.5°	18.1	25.8	23.2	20.6	20.6	18.1	56.8	25.8	15.5	7.7	5.2
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)