

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: P594809

Luminaire Tested: **ISS-PA1E-740-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
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-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7899 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

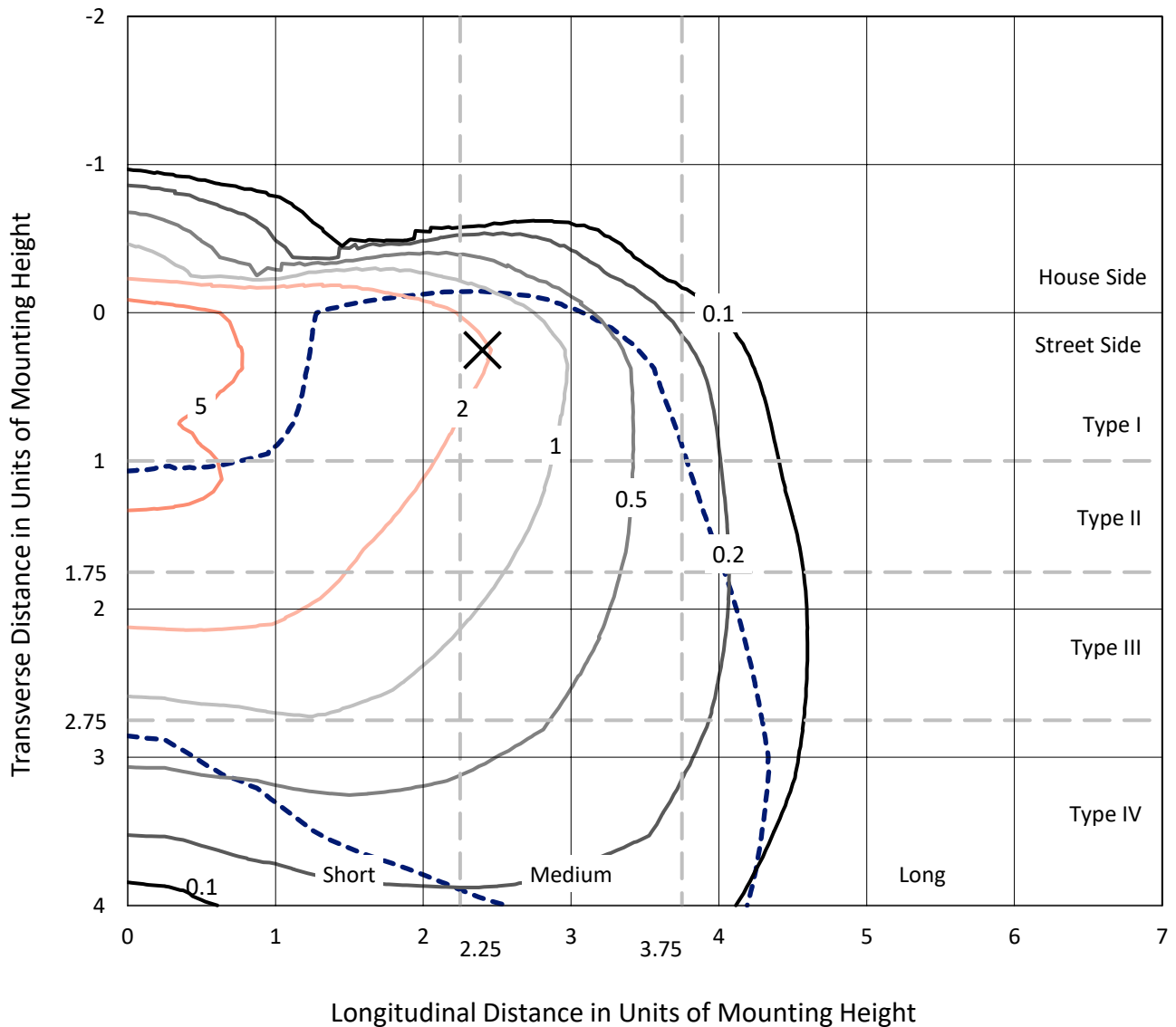
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

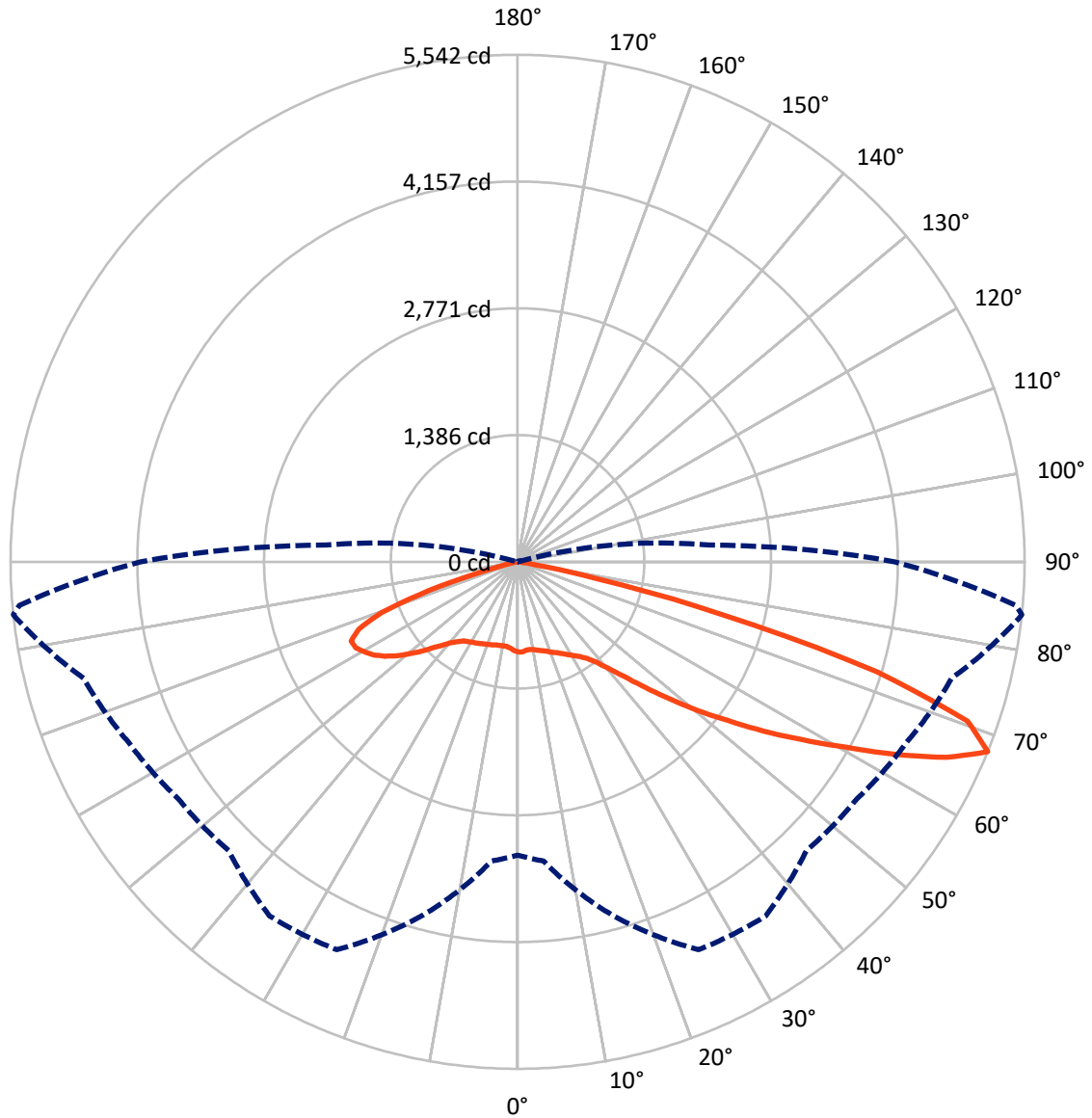
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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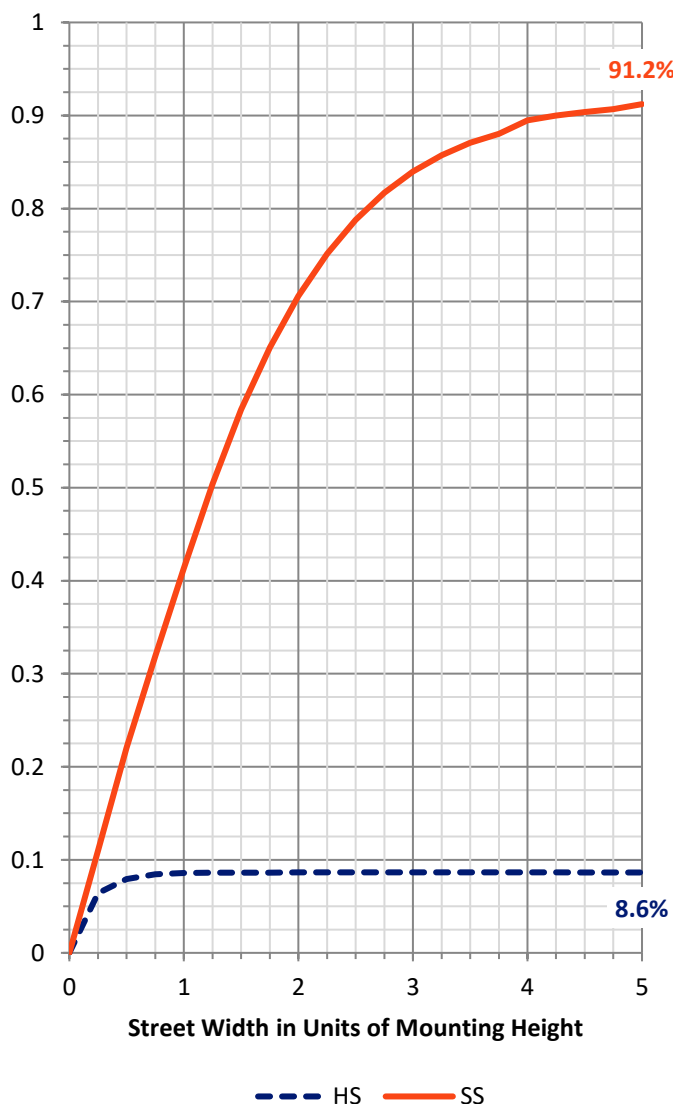
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	687.7	0.0	687.7
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	7211.3	0.0	7211.3
	% Fixture	91.3	0.0	91.3
Total	Lumens	7899.0	0.0	7899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.1
10°-20°	230.8	2.9
20°-30°	369.7	4.7
30°-40°	532.0	6.7
40°-50°	913.1	11.6
50°-60°	1595.3	20.2
60°-70°	2284.5	28.9
70°-80°	1717.1	21.7
80°-90°	168.5	2.1
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°	7899.0	100.0
0°-180°	7899.0	100.0

Coefficient of Utilization

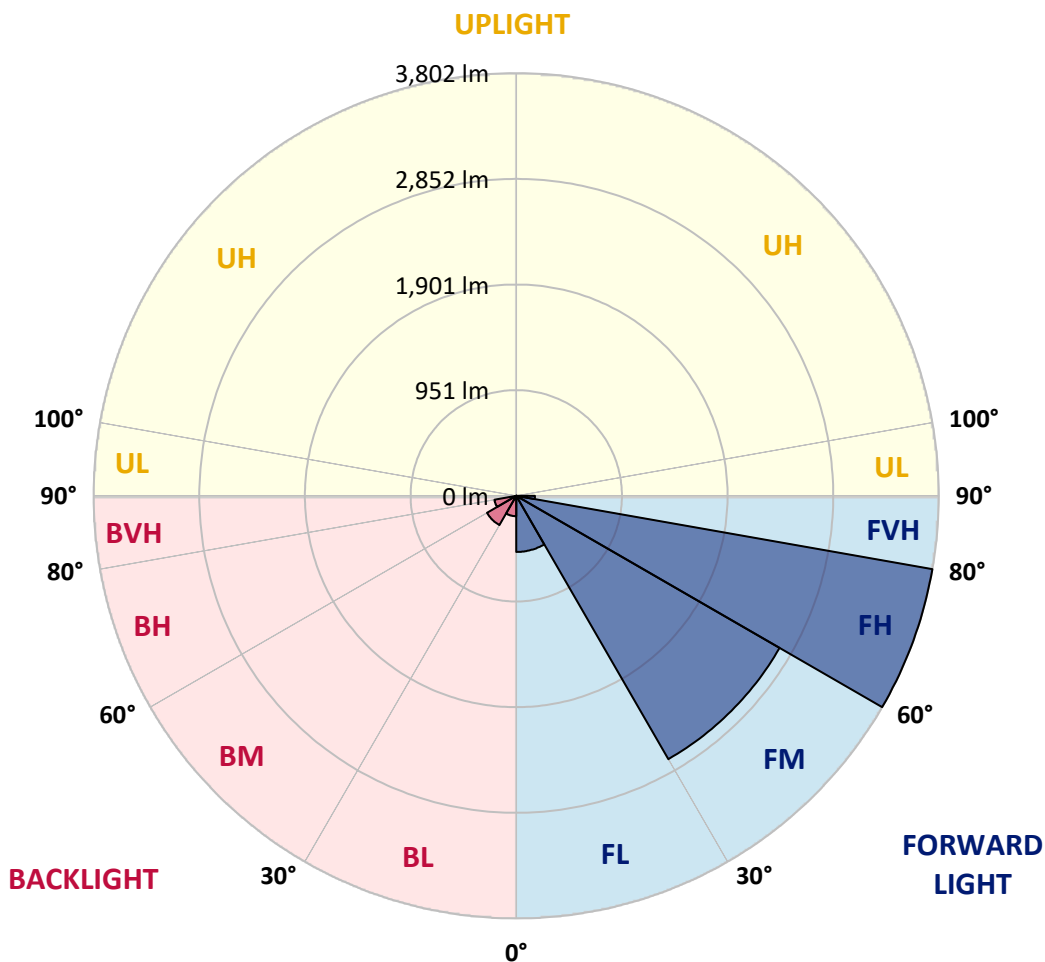


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.0	6.4			
FM (30°-60°)	2736.1	34.6			
FH (60°-80°)	3802.1	48.1			G2/5000
FVH (80°-90°)	168.0	2.1			G2/225
BL (0°-30°)	183.7	2.3	B1/500		
BM (30°-60°)	304.1	3.9	B1/1000		
BH (60°-80°)	199.4	2.5	B1/500		G1/500
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1
2.5°	1040.1	1045.5	1048.1	1034.8	1034.8	1024.1	1008.1	1002.8	994.8	986.8	984.1
5°	1093.5	1101.5	1098.8	1082.8	1074.8	1053.5	1032.1	1010.8	989.5	970.8	970.8
7.5°	1154.8	1157.5	1149.5	1122.8	1106.8	1077.5	1045.5	1021.5	994.8	968.1	962.8
10°	1208.1	1205.5	1194.8	1168.1	1138.8	1101.5	1066.8	1040.1	1008.1	976.1	973.5
12.5°	1245.5	1248.2	1234.8	1197.5	1168.1	1125.5	1090.8	1064.1	1026.8	992.1	984.1
15°	1277.5	1285.5	1269.5	1232.2	1189.5	1152.1	1125.5	1090.8	1048.1	1008.1	1002.8
17.5°	1306.8	1309.5	1296.2	1253.5	1213.5	1181.5	1152.1	1120.1	1077.5	1026.8	1021.5
20°	1322.8	1330.8	1322.8	1269.5	1232.2	1208.1	1184.1	1152.1	1104.1	1056.1	1050.8
22.5°	1333.5	1341.5	1338.8	1280.2	1248.2	1229.5	1208.1	1178.8	1133.5	1077.5	1072.1
25°	1338.8	1344.2	1349.5	1290.8	1264.2	1256.2	1237.5	1210.8	1168.1	1109.5	1104.1
27.5°	1346.8	1352.2	1357.5	1304.2	1293.5	1285.5	1280.2	1258.8	1208.1	1146.8	1138.8
30°	1360.2	1368.2	1373.5	1328.2	1328.2	1336.2	1336.2	1306.8	1250.8	1186.8	1181.5
32.5°	1376.2	1378.8	1389.5	1352.2	1365.5	1384.2	1378.8	1349.5	1290.8	1232.2	1224.1
35°	1418.8	1418.8	1437.5	1389.5	1405.5	1421.5	1426.8	1405.5	1352.2	1293.5	1290.8
37.5°	1522.9	1522.9	1538.9	1461.5	1458.8	1474.8	1493.5	1493.5	1440.2	1386.8	1381.5
40°	1757.5	1757.5	1757.5	1578.9	1549.5	1568.2	1597.5	1613.5	1568.2	1530.9	1530.9
42.5°	2149.6	2152.3	2112.3	1794.9	1669.5	1701.5	1733.5	1768.2	1744.2	1717.5	1712.2
45°	2555.0	2541.6	2536.3	2112.3	1882.9	1866.9	1906.9	1965.6	1973.6	1957.6	1968.2
47.5°	2832.3	2845.7	2853.7	2507.0	2181.6	2072.3	2109.6	2192.3	2240.3	2237.6	2253.6
50°	3101.7	3109.7	3117.7	2941.7	2576.3	2331.0	2355.0	2467.0	2533.6	2555.0	2565.6
52.5°	3336.4	3315.1	3349.7	3325.7	2995.0	2627.0	2627.0	2755.0	2875.0	2883.0	2880.4
55°	3405.7	3419.1	3523.1	3595.1	3424.4	2989.7	2936.4	3072.4	3200.4	3267.1	3267.1
57.5°	3560.4	3573.8	3699.1	3861.8	3736.5	3347.1	3267.1	3400.4	3539.1	3667.1	3685.8
60°	3763.1	3765.8	3899.1	4147.2	3973.8	3669.8	3603.1	3755.1	3893.8	4112.5	4173.8
62.5°	3872.5	3883.1	4067.2	4392.5	4272.5	3952.5	3936.5	4075.2	4253.9	4637.9	4693.9
65°	3704.5	3773.8	4173.8	4539.2	4515.2	4216.5	4272.5	4384.5	4589.9	5152.6	5206.0
67.5°	3205.7	3283.1	3997.8	4677.9	4725.9	4464.5	4523.2	4685.9	4912.6	5542.0	5467.3
70°	2952.4	3016.4	3571.1	4755.2	4901.9	4741.9	4768.6	4920.6	4987.3	5216.6	5136.6
72.5°	2237.6	2304.3	3021.7	4491.2	5054.0	5032.6	4965.9	4840.6	4445.9	4104.5	3909.8
75°	989.5	1066.8	2010.9	3509.8	4677.9	5198.0	4845.9	4144.5	3192.4	2331.0	2160.3
77.5°	437.4	482.7	778.8	1949.6	3515.1	4499.2	3832.5	2763.0	1602.9	866.8	805.4
80°	141.4	146.7	245.4	682.8	1797.6	2979.0	2347.0	1328.2	493.4	202.7	189.4
82.5°	56.0	61.3	117.3	288.0	744.1	1184.1	1152.1	480.1	144.0	53.3	53.3
85°	16.0	18.7	58.7	152.0	264.0	333.4	408.0	160.0	77.3	16.0	16.0
87.5°	5.3	5.3	21.3	48.0	50.7	34.7	77.3	61.3	48.0	5.3	5.3
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°	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1
2.5°	978.8	973.5	960.1	949.4	944.1	936.1	925.4	920.1	920.1	917.4	909.4
5°	960.1	952.1	928.1	912.1	898.8	869.4	848.1	821.4	794.8	786.8	794.8
7.5°	952.1	936.1	904.1	872.1	816.1	738.8	688.1	632.1	613.4	589.4	592.1
10°	954.8	936.1	890.8	818.8	709.4	594.7	514.7	440.1	402.7	384.0	386.7
12.5°	962.8	941.4	877.4	746.8	589.4	450.7	328.0	269.4	258.7	258.7	258.7
15°	978.8	946.8	856.1	661.4	461.4	298.7	232.0	226.7	234.7	242.7	245.4
17.5°	994.8	962.8	824.1	573.4	336.0	224.0	216.0	216.0	224.0	232.0	234.7
20°	1013.5	978.8	778.8	480.1	240.0	210.7	208.0	205.4	210.7	218.7	221.4
22.5°	1042.8	994.8	725.4	370.7	208.0	202.7	197.4	194.7	197.4	205.4	208.0
25°	1069.5	1016.1	669.4	274.7	194.7	189.4	186.7	184.0	184.0	189.4	192.0
27.5°	1101.5	1040.1	608.1	205.4	178.7	176.0	173.4	170.7	168.0	173.4	176.0
30°	1141.5	1061.5	541.4	173.4	162.7	160.0	157.4	154.7	152.0	154.7	157.4
32.5°	1192.1	1090.8	464.1	157.4	149.4	141.4	138.7	138.7	136.0	136.0	138.7
35°	1258.8	1122.8	381.4	146.7	136.0	128.0	120.0	117.3	117.3	117.3	120.0
37.5°	1357.5	1181.5	301.4	136.0	125.3	112.0	104.0	96.0	96.0	96.0	96.0
40°	1493.5	1245.5	234.7	128.0	117.3	98.7	88.0	77.3	72.0	69.3	72.0
42.5°	1704.2	1341.5	181.4	117.3	112.0	88.0	72.0	58.7	48.0	45.3	48.0
45°	1936.2	1445.5	144.0	109.3	101.3	74.7	56.0	40.0	29.3	26.7	29.3
47.5°	2229.6	1576.2	122.7	98.7	88.0	61.3	40.0	21.3	13.3	16.0	16.0
50°	2512.3	1704.2	112.0	90.7	77.3	50.7	24.0	10.7	5.3	8.0	8.0
52.5°	2824.3	1840.2	104.0	80.0	66.7	37.3	13.3	2.7	0.0	2.7	2.7
55°	3139.1	1962.9	96.0	72.0	53.3	26.7	5.3	0.0	0.0	0.0	2.7
57.5°	3480.4	2066.9	88.0	61.3	40.0	16.0	2.7	0.0	0.0	0.0	0.0
60°	3765.8	2146.9	80.0	53.3	26.7	8.0	0.0	0.0	0.0	0.0	0.0
62.5°	4027.2	2218.9	61.3	40.0	16.0	5.3	0.0	0.0	0.0	0.0	0.0
65°	4200.5	2234.9	42.7	26.7	10.7	2.7	0.0	0.0	0.0	0.0	0.0
67.5°	4123.2	2096.3	26.7	18.7	5.3	2.7	0.0	0.0	0.0	0.0	0.0
70°	3624.4	1760.2	18.7	10.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	2536.3	1136.1	16.0	8.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0
75°	1338.8	410.7	10.7	5.3	2.7	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	474.7	90.7	5.3	2.7	0.0	2.7	0.0	0.0	0.0	0.0	0.0
80°	104.0	18.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)