

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: P594806

Luminaire Tested: **ISS-PA1E-740-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
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-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10584 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

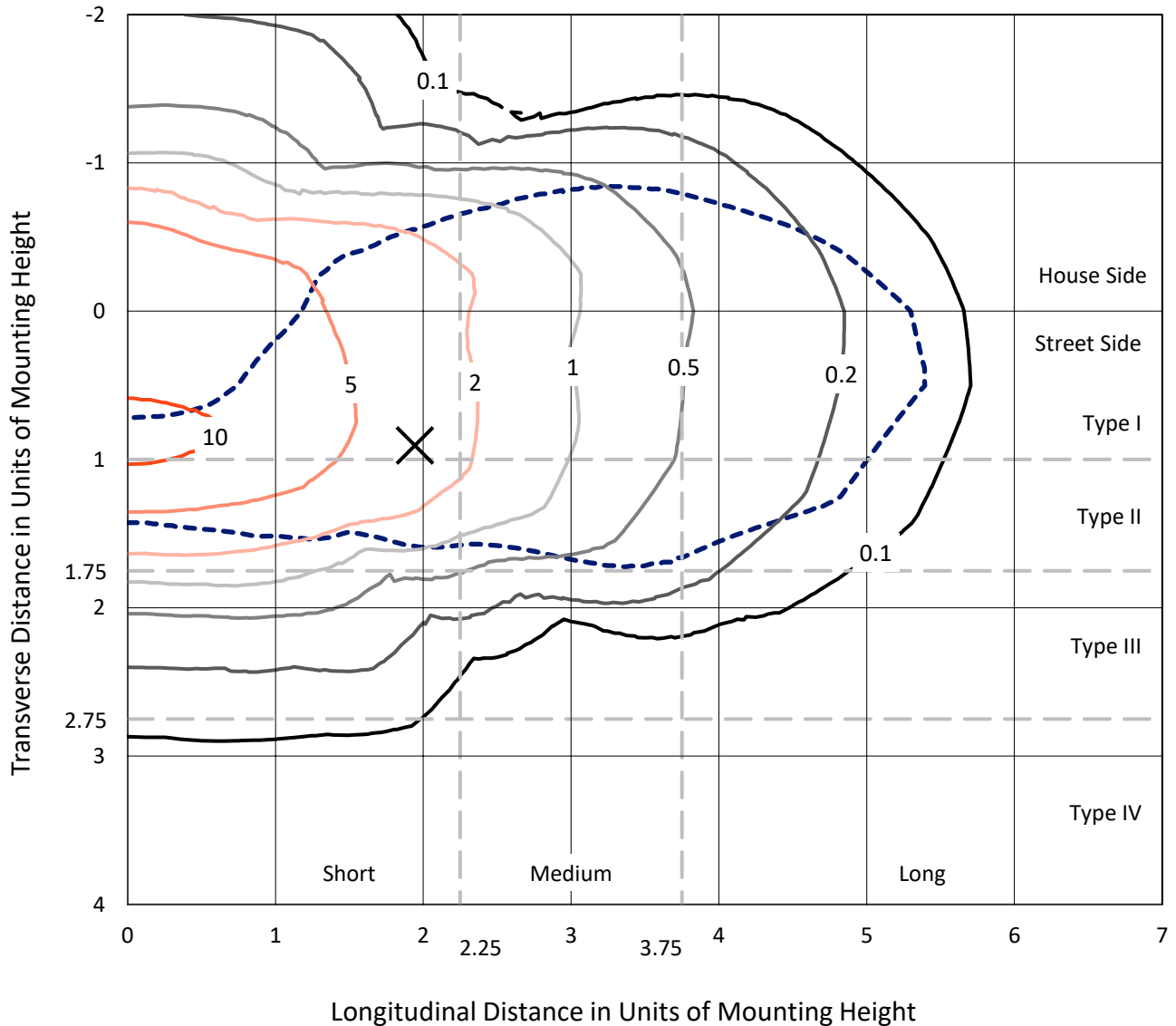
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

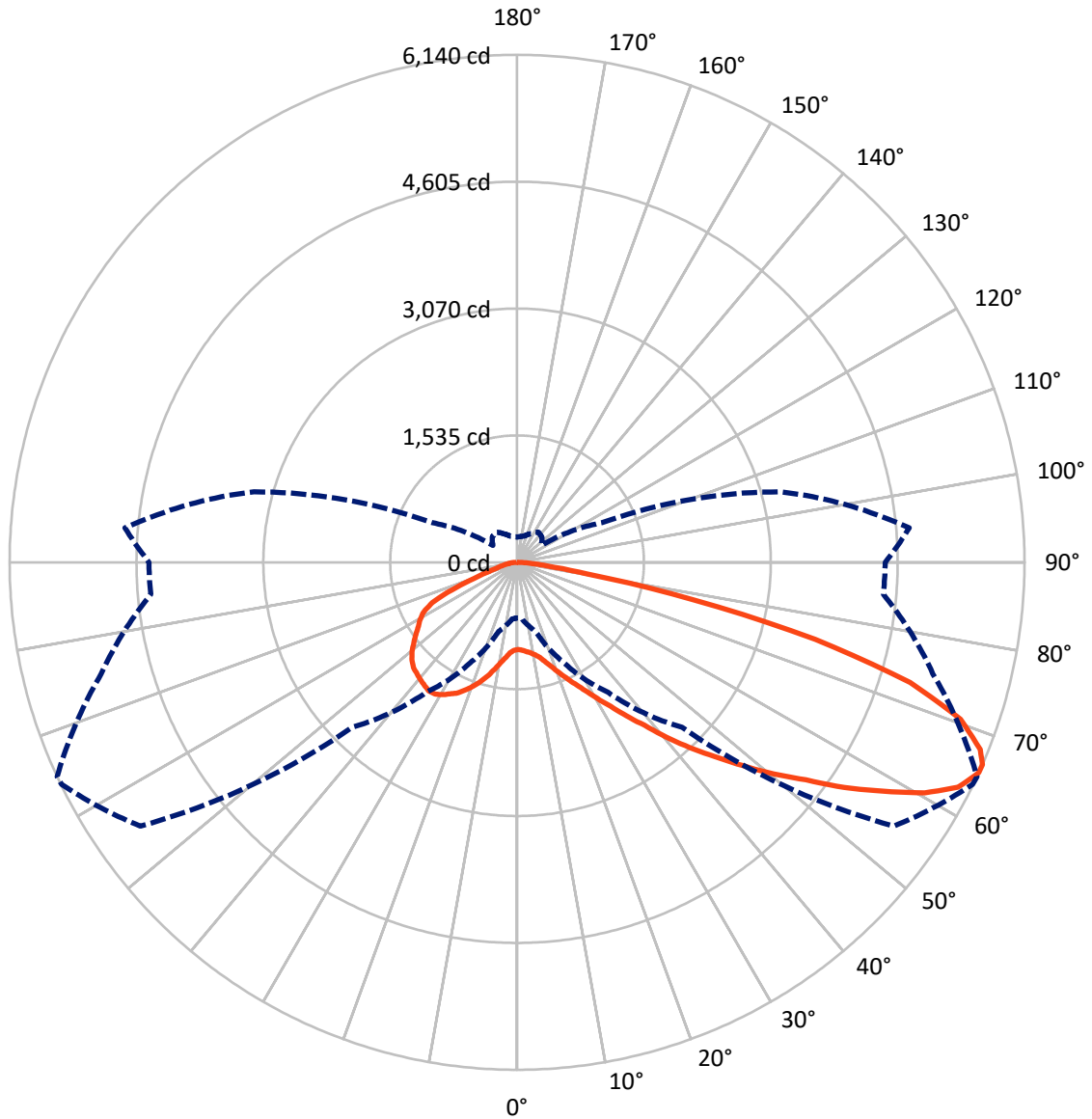
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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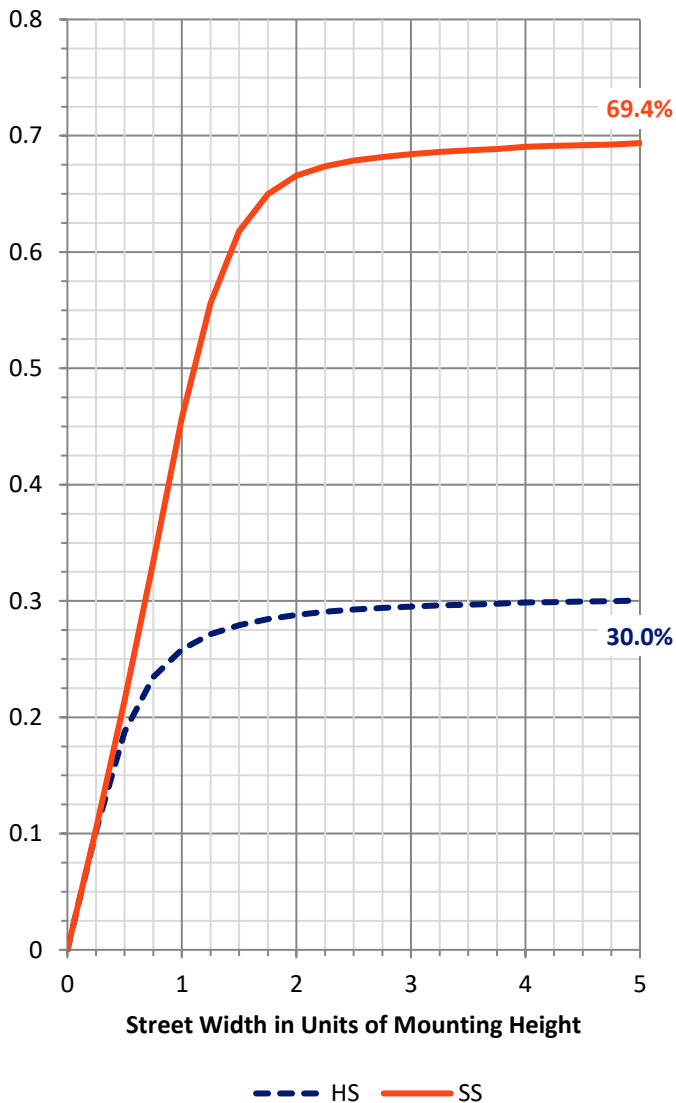
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3213.7	0.0	3213.7
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	7370.3	0.0	7370.3
	% Fixture	69.6	0.0	69.6
Total	Lumens	10584.0	0.0	10584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.0
10°-20°	375.1	3.5
20°-30°	734.6	6.9
30°-40°	1200.4	11.3
40°-50°	1905.4	18.0
50°-60°	2450.6	23.2
60°-70°	2210.0	20.9
70°-80°	1370.7	13.0
80°-90°	229.7	2.2
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°	10584.0	100.0
0°-180°	10584.0	100.0

Coefficient of Utilization



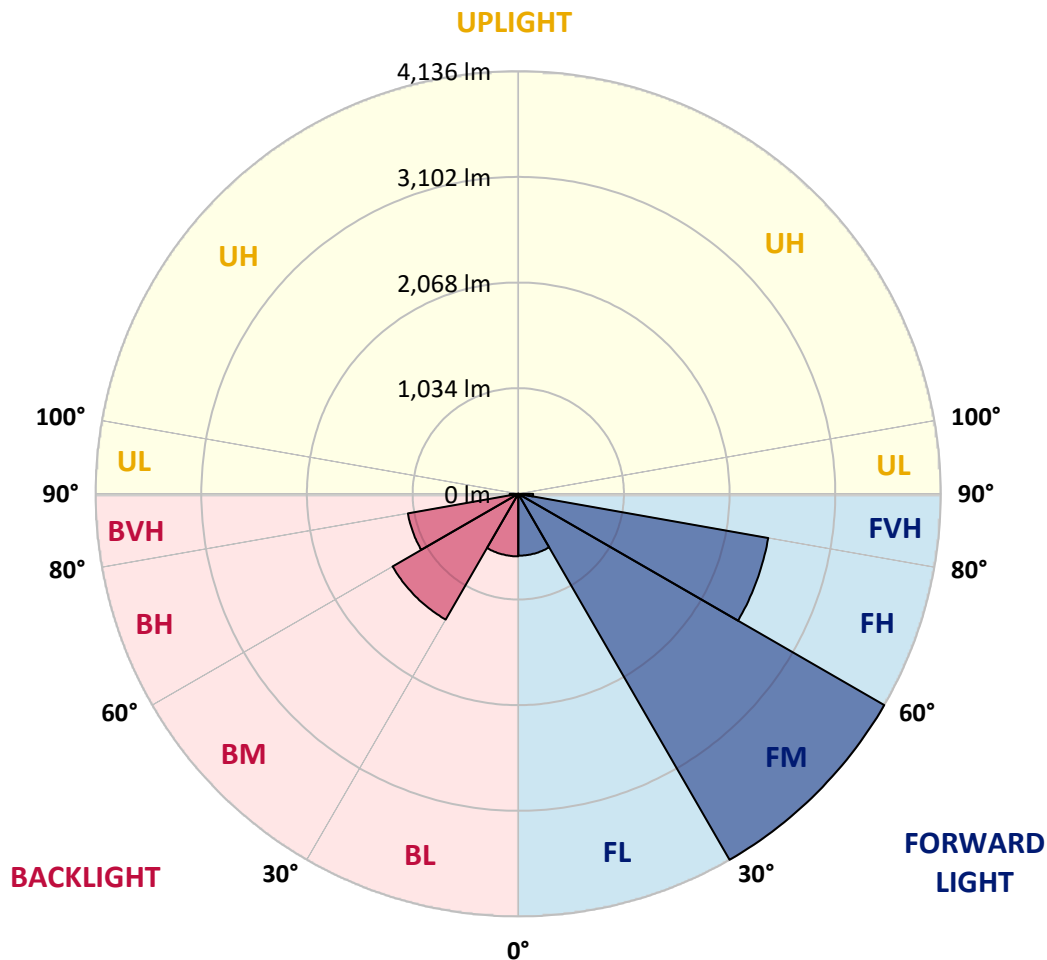
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.3	5.7			
FM (30°-60°)	4135.6	39.1			
FH (60°-80°)	2484.1	23.5			G2/5000
FVH (80°-90°)	145.3	1.4			G2/225
BL (0°-30°)	612.1	5.8	B2/1000		
BM (30°-60°)	1420.7	13.4	B2/2500		
BH (60°-80°)	1096.5	10.4	B3/2500		G3/2500
BVH (80°-90°)	84.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0
2.5°	1057.5	1060.1	1062.7	1057.5	1062.7	1065.2	1060.1	1060.1	1062.7	1057.5	1057.5
5°	1049.8	1052.4	1057.5	1060.1	1070.4	1075.5	1078.1	1078.1	1080.6	1078.1	1080.6
7.5°	1029.3	1029.3	1039.6	1044.7	1060.1	1078.1	1088.3	1103.7	1103.7	1106.3	1114.0
10°	1049.8	1049.8	1057.5	1065.2	1078.1	1093.5	1108.9	1126.8	1132.0	1149.9	1160.2
12.5°	1080.6	1085.8	1096.0	1106.3	1121.7	1139.7	1152.5	1170.5	1173.0	1191.0	1211.6
15°	1132.0	1137.1	1142.2	1155.1	1175.6	1198.7	1221.8	1234.7	1239.8	1250.1	1265.5
17.5°	1209.0	1214.1	1216.7	1224.4	1239.8	1270.6	1304.0	1314.2	1319.4	1319.4	1332.2
20°	1339.9	1337.3	1332.2	1316.8	1316.8	1345.0	1391.2	1409.2	1414.3	1404.1	1396.4
22.5°	1491.3	1488.8	1468.2	1450.3	1437.4	1442.6	1488.8	1519.6	1517.0	1496.5	1465.7
25°	1689.0	1694.1	1660.7	1614.5	1576.0	1565.8	1594.0	1624.8	1629.9	1591.4	1540.1
27.5°	1925.1	1917.4	1899.5	1825.0	1750.6	1704.4	1719.8	1753.2	1755.7	1714.7	1632.5
30°	2202.4	2189.5	2143.3	2066.3	1950.8	1886.6	1873.8	1902.0	1909.7	1840.4	1722.4
32.5°	2510.4	2497.5	2438.5	2320.4	2194.7	2086.8	2045.8	2084.3	2079.1	1999.6	1835.3
35°	2882.6	2880.0	2772.2	2625.9	2466.7	2323.0	2266.5	2266.5	2281.9	2163.8	1979.0
37.5°	3380.5	3401.1	3241.9	3013.5	2790.2	2597.6	2502.7	2497.5	2500.1	2371.8	2140.7
40°	3829.7	3822.0	3729.6	3516.6	3190.6	2944.2	2803.0	2772.2	2779.9	2615.6	2351.2
42.5°	4089.0	4096.7	4073.6	3981.2	3696.3	3385.7	3144.4	3062.2	3064.8	2859.5	2551.4
45°	4250.7	4258.4	4255.8	4302.0	4189.1	3896.5	3552.5	3362.6	3352.3	3136.7	2787.6
47.5°	4343.1	4348.2	4381.6	4476.6	4569.0	4502.2	4004.3	3696.3	3675.7	3395.9	3023.7
50°	4240.4	4243.0	4376.5	4602.4	4828.2	5031.0	4466.3	4027.4	4022.2	3683.4	3254.8
52.5°	3701.4	3747.6	4042.8	4515.1	5020.7	5405.8	5000.2	4417.5	4373.9	3955.5	3485.8
55°	3021.2	3041.7	3380.5	3981.2	4984.8	5636.8	5403.2	4838.5	4807.7	4258.4	3711.7
57.5°	2358.9	2379.5	2782.5	3283.0	4435.5	5624.0	5688.1	5292.8	5223.5	4522.8	3937.5
60°	1522.1	1586.3	2053.5	2669.5	3591.0	5233.8	5831.9	5729.2	5665.0	4784.6	4130.1
62.5°	1034.4	1044.7	1337.3	1979.0	2687.5	4253.3	5821.6	5998.7	5988.4	5046.4	4322.6
65°	672.5	687.9	865.0	1339.9	1922.6	2823.5	5564.9	6129.6	6139.9	5208.1	4448.3
66°	569.8	580.1	716.1	1126.8	1683.8	2238.3	5339.0	6119.4	6139.9	5282.6	4486.8
67.5°	495.4	503.1	572.4	831.7	1375.8	1609.4	4751.2	5983.3	6042.4	5351.9	4535.6
70°	426.1	436.4	500.5	567.3	983.1	939.5	3008.3	5634.2	5693.3	5385.2	4566.4
72.5°	351.7	359.4	423.5	513.4	713.6	631.4	1327.1	4823.1	4972.0	5262.0	4517.6
75°	277.2	282.4	341.4	428.7	546.7	492.8	577.5	3537.1	3724.5	4638.3	4327.7
77.5°	215.6	218.2	264.4	333.7	500.5	382.5	356.8	1722.4	2179.3	3583.3	3811.8
80°	148.9	154.0	195.1	251.6	367.1	302.9	238.7	672.5	854.8	2379.5	2890.3
82.5°	97.5	100.1	133.5	189.9	243.9	290.1	156.6	326.0	359.4	1096.0	1252.6
85°	66.7	66.7	95.0	118.1	166.8	192.5	102.7	172.0	187.4	415.8	151.4
87.5°	33.4	33.4	46.2	61.6	79.6	74.4	61.6	61.6	61.6	136.0	43.6
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°	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0
2.5°	1060.1	1060.1	1062.7	1065.2	1067.8	1067.8	1070.4	1070.4	1067.8	1070.4	1072.9
5°	1083.2	1085.8	1090.9	1098.6	1111.4	1124.3	1137.1	1144.8	1152.5	1155.1	1149.9
7.5°	1119.1	1124.3	1142.2	1162.8	1183.3	1214.1	1232.1	1242.4	1247.5	1252.6	1247.5
10°	1165.3	1175.6	1201.3	1237.2	1273.2	1311.7	1332.2	1347.6	1350.2	1355.3	1350.2
12.5°	1219.3	1237.2	1275.7	1327.1	1370.7	1409.2	1424.6	1414.3	1391.2	1381.0	1378.4
15°	1283.4	1301.4	1355.3	1419.5	1470.8	1488.8	1465.7	1432.3	1406.6	1404.1	1401.5
17.5°	1339.9	1365.6	1440.0	1506.7	1555.5	1537.5	1475.9	1455.4	1447.7	1458.0	1455.4
20°	1411.8	1432.3	1506.7	1588.9	1614.5	1545.2	1501.6	1488.8	1481.1	1481.1	1475.9
22.5°	1470.8	1486.2	1576.0	1665.9	1650.5	1550.4	1519.6	1493.9	1468.2	1465.7	1458.0
25°	1540.1	1545.2	1640.2	1737.8	1655.6	1555.5	1501.6	1458.0	1432.3	1424.6	1427.2
27.5°	1604.3	1617.1	1699.3	1786.5	1642.8	1527.3	1440.0	1383.5	1345.0	1342.5	1342.5
30°	1686.4	1686.4	1760.9	1840.4	1614.5	1455.4	1339.9	1257.8	1227.0	1224.4	1219.3
32.5°	1778.8	1763.4	1835.3	1878.9	1552.9	1357.9	1203.8	1111.4	1062.7	1052.4	1044.7
35°	1907.2	1873.8	1925.1	1886.6	1491.3	1219.3	1031.9	926.6	890.7	875.3	875.3
37.5°	2056.0	2007.3	2061.2	1863.5	1396.4	1057.5	852.2	772.6	734.1	711.0	718.7
40°	2230.6	2169.0	2199.8	1837.9	1293.7	877.9	703.3	654.5	608.3	577.5	577.5
42.5°	2435.9	2333.3	2356.4	1812.2	1147.4	721.3	608.3	575.0	539.0	508.2	515.9
45°	2633.6	2533.5	2510.4	1786.5	993.4	616.0	569.8	546.7	513.4	477.4	477.4
47.5°	2862.0	2733.7	2646.4	1740.3	841.9	582.7	580.1	546.7	482.6	431.2	426.1
50°	3077.6	2959.6	2769.6	1671.0	757.2	610.9	577.5	498.0	436.4	403.0	400.4
52.5°	3306.1	3182.9	2869.7	1586.3	713.6	598.1	531.3	456.9	410.7	377.3	369.6
55°	3532.0	3467.8	2959.6	1504.2	644.3	557.0	492.8	431.2	382.5	351.7	346.5
57.5°	3788.7	3763.0	3036.6	1422.0	536.5	505.7	464.6	413.3	367.1	344.0	341.4
60°	4012.0	4101.8	3129.0	1360.4	456.9	467.2	451.8	410.7	377.3	351.7	351.7
62.5°	4248.1	4427.8	3211.1	1280.9	397.9	444.1	454.3	408.1	364.5	341.4	341.4
65°	4453.5	4761.5	3295.8	1134.5	356.8	426.1	446.6	379.9	328.6	310.6	305.5
66°	4540.7	4856.5	3321.5	1044.7	341.4	413.3	433.8	364.5	313.2	297.8	295.2
67.5°	4643.4	5005.3	3352.3	852.2	318.3	385.0	405.6	341.4	287.5	277.2	272.1
70°	4787.2	5036.1	3334.3	557.0	277.2	331.1	361.9	305.5	256.7	249.0	241.3
72.5°	4802.6	4825.7	3154.7	351.7	241.3	284.9	318.3	274.7	225.9	218.2	213.0
75°	4548.4	4276.4	2669.5	251.6	213.0	251.6	279.8	238.7	187.4	177.1	172.0
77.5°	3883.6	3393.4	1920.0	187.4	184.8	215.6	233.6	207.9	156.6	148.9	146.3
80°	2726.0	2302.5	962.6	141.2	146.3	179.7	195.1	174.5	130.9	120.6	115.5
82.5°	1103.7	978.0	331.1	105.2	110.4	136.0	166.8	143.7	100.1	87.3	77.0
85°	125.8	213.0	143.7	71.9	74.4	92.4	112.9	87.3	59.0	48.8	41.1
87.5°	25.7	46.2	51.3	28.2	25.7	35.9	51.3	30.8	20.5	7.7	10.3
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)