

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: P594810

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

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
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  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10394 lumens  
Efficiency: N/A  
Efficacy: 126.1 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

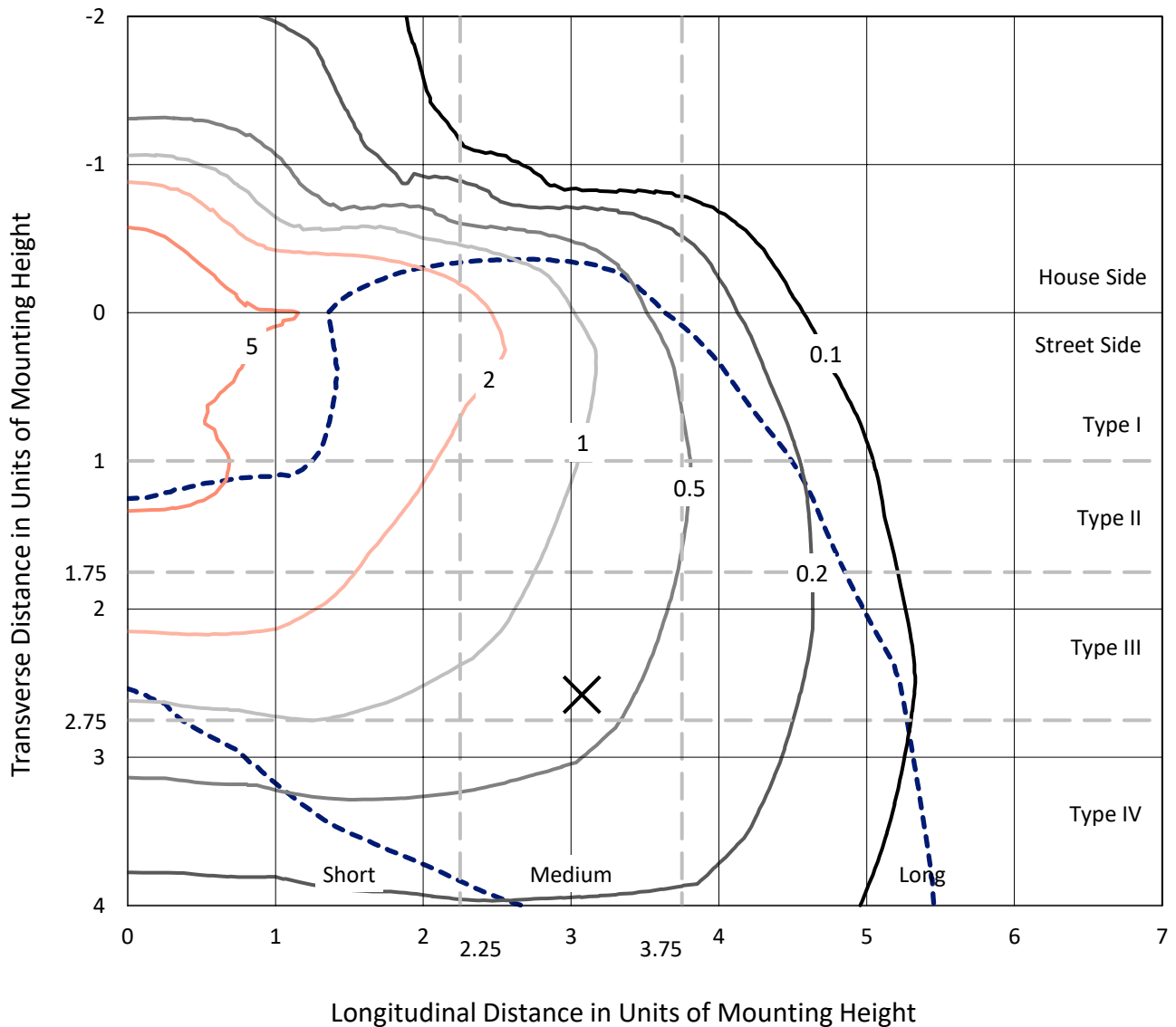
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

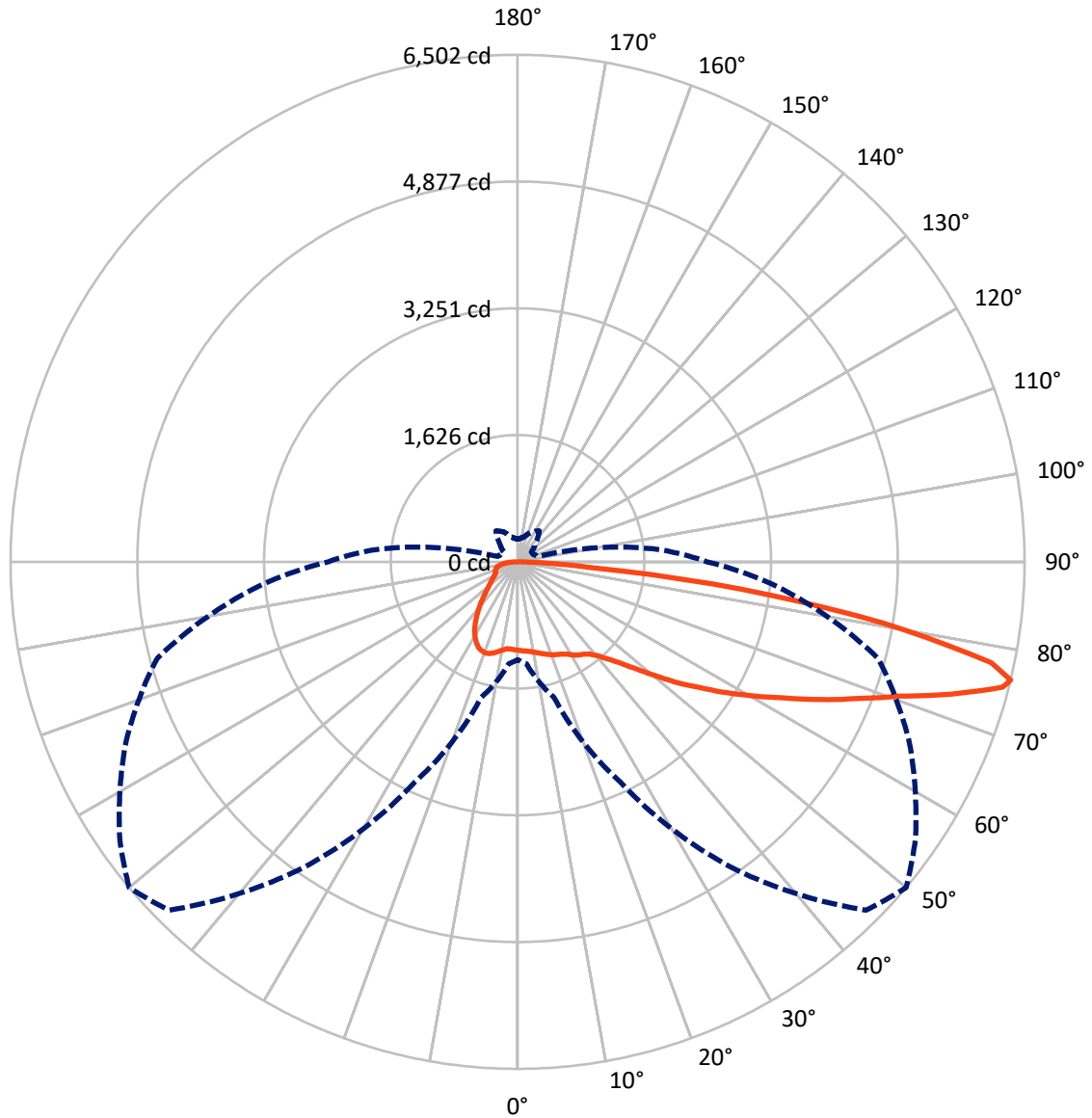
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2377.7	0.0	2377.7
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8016.3	0.0	8016.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10394.0	0.0	10394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.0	1.1
10°-20°	345.9	3.3
20°-30°	584.2	5.6
30°-40°	800.8	7.7
40°-50°	1179.5	11.3
50°-60°	1855.4	17.9
60°-70°	2670.6	25.7
70°-80°	2428.4	23.4
80°-90°	419.2	4.0
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°	10394.0	100.0
0°-180°	10394.0	100.0

**Coefficient of Utilization**

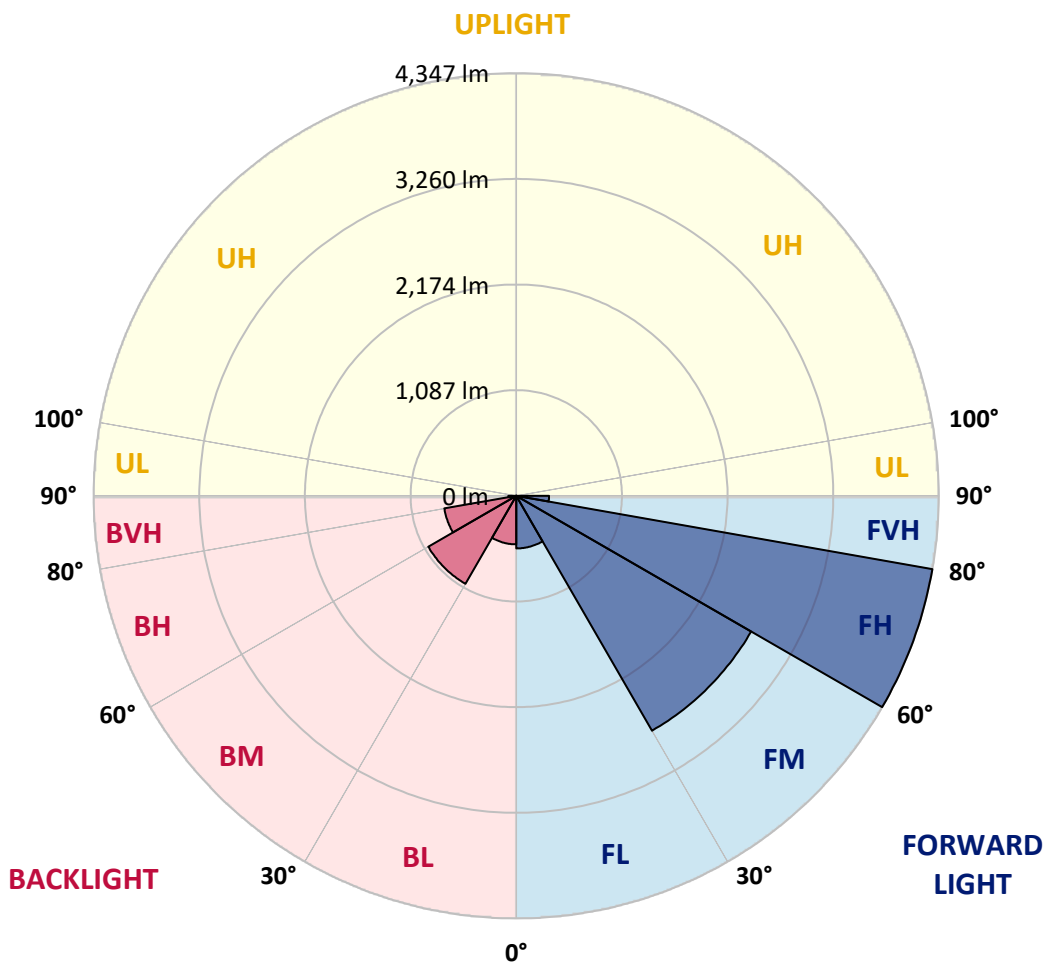


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.0	5.2			
FM (30°-60°)	2790.6	26.8			
FH (60°-80°)	4347.2	41.8			G2/5000
FVH (80°-90°)	337.4	3.2			G3/500
BL (0°-30°)	499.2	4.8	B1/500		
BM (30°-60°)	1045.0	10.1	B2/2500		
BH (60°-80°)	751.8	7.2	B2/1000		G2/1000
BVH (80°-90°)	81.8	0.8			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°	50°	55°	65°	75°	85°
0°	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1158.4	1158.4	1160.9	1155.8	1155.8	1143.1	1143.1	1140.6	1135.5	1132.9	1127.8
5°	1201.7	1201.7	1194.0	1181.3	1173.7	1158.4	1150.7	1145.7	1135.5	1122.7	1110.0
7.5°	1247.5	1242.4	1237.3	1216.9	1201.7	1173.7	1160.9	1153.3	1132.9	1115.1	1107.5
10°	1295.9	1288.2	1275.5	1250.0	1227.1	1194.0	1178.7	1168.6	1145.7	1130.4	1112.6
12.5°	1323.9	1323.9	1308.6	1278.0	1247.5	1206.8	1199.1	1186.4	1163.5	1143.1	1125.3
15°	1351.9	1354.4	1339.1	1303.5	1267.9	1237.3	1224.6	1216.9	1191.5	1160.9	1138.0
17.5°	1379.9	1377.3	1362.1	1321.3	1283.1	1255.1	1247.5	1237.3	1211.8	1183.8	1160.9
20°	1400.2	1395.1	1390.1	1339.1	1301.0	1283.1	1272.9	1265.3	1239.8	1209.3	1178.7
22.5°	1405.3	1410.4	1405.3	1344.2	1313.7	1293.3	1290.8	1283.1	1262.8	1234.8	1204.2
25°	1407.9	1410.4	1418.1	1359.5	1331.5	1316.2	1311.1	1306.0	1290.8	1267.9	1227.1
27.5°	1420.6	1423.2	1423.2	1369.7	1354.4	1344.2	1339.1	1339.1	1331.5	1303.5	1262.8
30°	1423.2	1425.7	1430.8	1395.1	1390.1	1382.4	1385.0	1382.4	1369.7	1339.1	1293.3
32.5°	1441.0	1443.5	1456.3	1410.4	1415.5	1423.2	1425.7	1423.2	1397.7	1372.2	1334.0
35°	1499.5	1497.0	1507.2	1448.6	1443.5	1446.1	1453.7	1451.2	1441.0	1418.1	1392.6
37.5°	1687.9	1687.9	1659.9	1537.7	1499.5	1494.4	1499.5	1512.3	1514.8	1494.4	1474.1
40°	2018.9	2001.1	1985.8	1721.0	1598.8	1568.3	1583.5	1591.2	1611.6	1611.6	1611.6
42.5°	2360.0	2362.6	2357.5	2006.2	1777.0	1700.7	1703.2	1721.0	1764.3	1771.9	1794.9
45°	2663.0	2680.8	2719.0	2337.1	2039.3	1868.7	1850.9	1868.7	1929.8	1980.7	2039.3
47.5°	2899.8	2879.4	2963.4	2683.4	2339.7	2097.8	2052.0	2057.1	2141.1	2222.6	2314.2
50°	3103.4	3108.5	3146.7	3037.3	2719.0	2357.5	2296.4	2286.2	2405.9	2492.4	2647.7
52.5°	3332.6	3317.3	3373.3	3347.8	3088.2	2675.7	2579.0	2548.4	2678.3	2800.5	2968.5
55°	3442.0	3457.3	3571.9	3635.5	3437.0	2960.9	2853.9	2864.1	3001.6	3131.4	3365.7
57.5°	3635.5	3650.8	3783.2	3915.6	3747.6	3263.8	3169.6	3169.6	3324.9	3470.1	3831.6
60°	3900.3	3902.9	4037.8	4266.9	4020.0	3556.6	3495.5	3493.0	3661.0	3829.0	4381.5
62.5°	4017.4	4048.0	4249.1	4547.0	4376.4	3915.6	3844.3	3864.7	4014.9	4210.9	4995.0
65°	3859.6	3925.8	4345.8	4735.4	4694.6	4289.8	4261.8	4289.8	4381.5	4592.8	5644.2
67.5°	3337.7	3426.8	4167.6	4862.7	4949.2	4722.6	4681.9	4676.8	4735.4	4972.1	6054.1
70°	3067.8	3121.3	3696.6	4911.0	5152.9	5160.5	5160.5	5127.4	5119.8	5292.9	6092.3
72.5°	2525.5	2581.5	3118.7	4641.2	5346.4	5746.1	5804.6	5682.4	5494.0	5458.4	5453.3
75°	1799.9	1840.7	2304.0	3650.8	5099.4	6308.7	6425.8	6189.1	5664.6	5096.9	3976.7
76°	1255.1	1313.7	1799.9	3118.7	4788.8	6318.9	6502.2	6227.3	5550.0	4786.3	3276.6
77.5°	636.5	656.8	1041.3	2095.3	4007.2	6028.7	6206.9	5898.8	5051.1	3867.2	2080.0
80°	241.9	249.5	371.7	763.8	2199.7	4681.9	4750.6	4335.7	3342.8	1652.3	748.5
82.5°	127.3	132.4	208.8	376.8	903.8	2573.9	2904.9	2418.6	1311.1	496.4	218.9
85°	63.6	68.7	122.2	229.1	448.1	804.5	931.8	880.9	435.3	188.4	81.5
87.5°	25.5	30.6	61.1	101.8	180.8	157.8	175.7	226.6	140.0	89.1	28.0
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°	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1127.8	1125.3	1127.8	1125.3	1127.8	1127.8	1130.4	1125.3	1125.3	1130.4	1122.7
5°	1110.0	1107.5	1110.0	1115.1	1117.6	1122.7	1132.9	1130.4	1135.5	1140.6	1143.1
7.5°	1102.4	1099.8	1107.5	1110.0	1117.6	1127.8	1143.1	1153.3	1158.4	1168.6	1163.5
10°	1110.0	1110.0	1120.2	1127.8	1140.6	1153.3	1166.0	1176.2	1188.9	1196.6	1194.0
12.5°	1122.7	1120.2	1138.0	1148.2	1166.0	1178.7	1188.9	1194.0	1204.2	1214.4	1211.8
15°	1135.5	1138.0	1163.5	1183.8	1204.2	1209.3	1211.8	1206.8	1211.8	1216.9	1216.9
17.5°	1160.9	1163.5	1191.5	1214.4	1232.2	1227.1	1214.4	1201.7	1201.7	1204.2	1206.8
20°	1181.3	1186.4	1219.5	1239.8	1250.0	1229.7	1209.3	1194.0	1186.4	1188.9	1186.4
22.5°	1204.2	1214.4	1247.5	1257.7	1242.4	1216.9	1191.5	1171.1	1171.1	1173.7	1173.7
25°	1232.2	1237.3	1260.2	1255.1	1227.1	1188.9	1168.6	1160.9	1158.4	1160.9	1163.5
27.5°	1257.7	1260.2	1272.9	1237.3	1183.8	1143.1	1135.5	1138.0	1140.6	1143.1	1145.7
30°	1290.8	1295.9	1283.1	1211.8	1130.4	1084.6	1084.6	1099.8	1104.9	1112.6	1110.0
32.5°	1331.5	1336.6	1298.4	1178.7	1061.6	1015.8	1018.4	1041.3	1056.5	1061.6	1064.2
35°	1400.2	1390.1	1308.6	1132.9	987.8	931.8	934.3	962.3	982.7	990.4	985.3
37.5°	1484.3	1481.7	1323.9	1074.4	896.2	845.2	847.8	860.5	880.9	883.4	886.0
40°	1624.3	1603.9	1349.3	998.0	804.5	756.1	751.0	758.7	756.1	761.2	763.8
42.5°	1825.4	1771.9	1382.4	911.4	723.0	672.1	667.0	654.3	639.0	623.7	616.1
45°	2062.2	1978.2	1423.2	822.3	639.0	593.2	580.5	565.2	534.6	501.5	491.4
47.5°	2367.7	2207.3	1469.0	733.2	560.1	524.5	514.3	491.4	455.7	417.5	409.9
50°	2680.8	2477.2	1514.8	659.4	496.4	476.1	465.9	443.0	397.2	361.5	353.9
52.5°	3044.9	2744.5	1563.2	593.2	440.4	440.4	432.8	397.2	353.9	320.8	315.7
55°	3465.0	3019.4	1639.6	529.5	399.7	409.9	399.7	364.1	323.3	300.4	297.9
57.5°	3966.5	3368.2	1736.3	460.8	364.1	371.7	371.7	346.2	318.2	303.0	300.4
60°	4470.6	3722.1	1797.4	409.9	336.1	343.7	359.0	346.2	328.4	320.8	318.2
62.5°	4954.3	4083.6	1693.0	366.6	308.1	331.0	369.2	371.7	353.9	356.4	356.4
65°	5315.8	4358.6	1369.7	328.4	290.2	338.6	399.7	402.3	371.7	364.1	361.5
67.5°	5440.6	4434.9	921.6	303.0	280.0	343.7	435.3	425.2	371.7	356.4	348.8
70°	5203.8	4154.9	598.3	280.0	264.8	338.6	463.4	437.9	369.2	346.2	336.1
72.5°	4363.7	3543.9	399.7	259.7	249.5	333.5	481.2	437.9	361.5	328.4	318.2
75°	3029.6	2421.1	297.9	234.2	226.6	325.9	486.3	430.3	343.7	308.1	300.4
76°	2431.3	1815.2	269.9	224.0	216.4	320.8	483.7	422.6	331.0	297.9	290.2
77.5°	1535.2	1043.8	226.6	206.2	201.1	310.6	473.5	404.8	313.1	280.0	272.4
80°	537.2	381.9	173.1	168.0	170.6	287.7	445.5	369.2	277.5	247.0	236.8
82.5°	213.9	175.7	129.8	129.8	134.9	247.0	402.3	325.9	241.9	203.7	188.4
85°	84.0	76.4	91.7	91.7	96.7	201.1	336.1	254.6	165.5	127.3	122.2
87.5°	25.5	35.6	40.7	43.3	45.8	101.8	190.9	112.0	73.8	53.5	43.3
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)