

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: P594873

Luminaire Tested: **ISS-PA1F-730-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594873
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-PA1F-730-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10375 lumens
Efficiency: N/A
Efficacy: 109.9 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

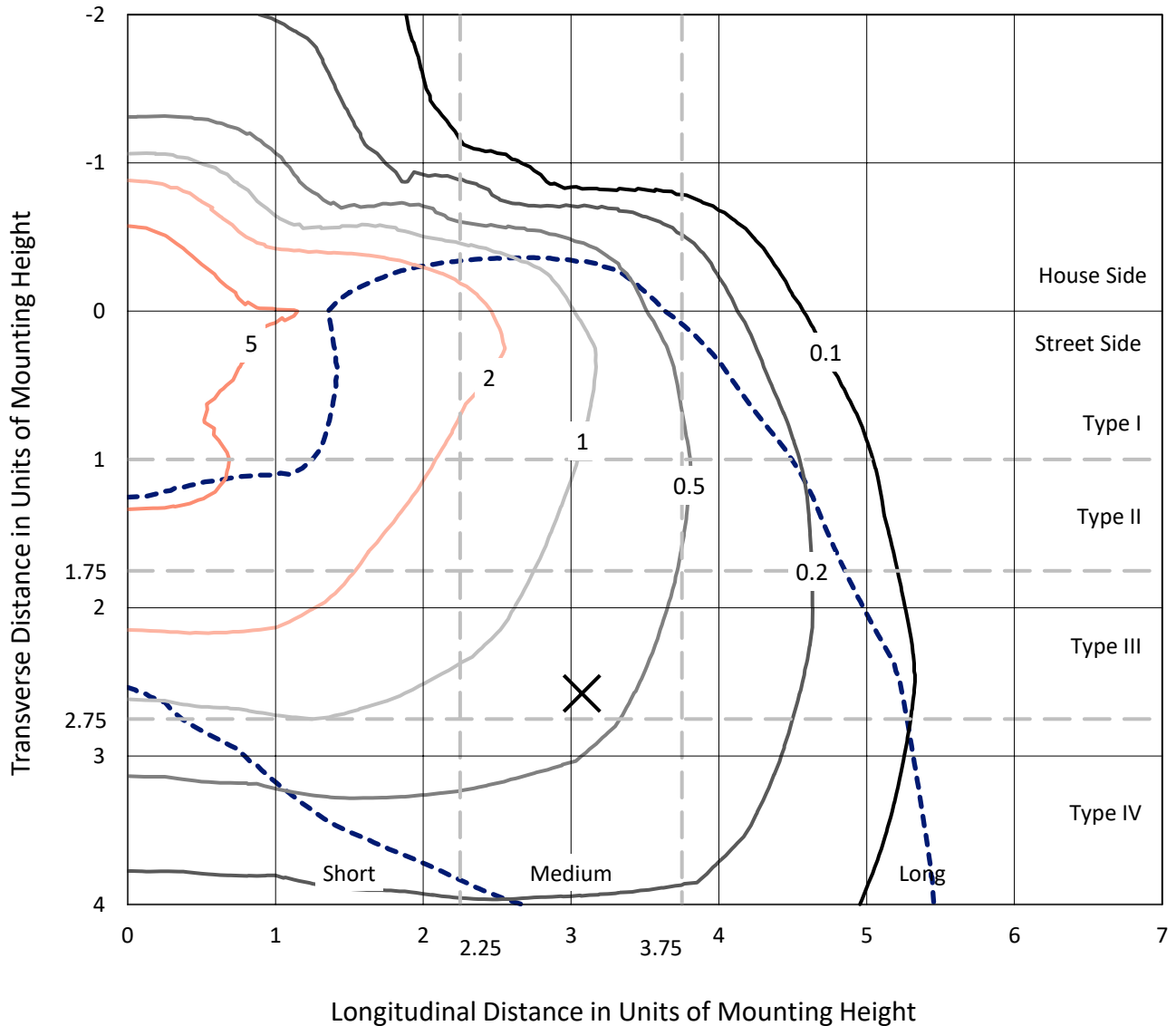
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

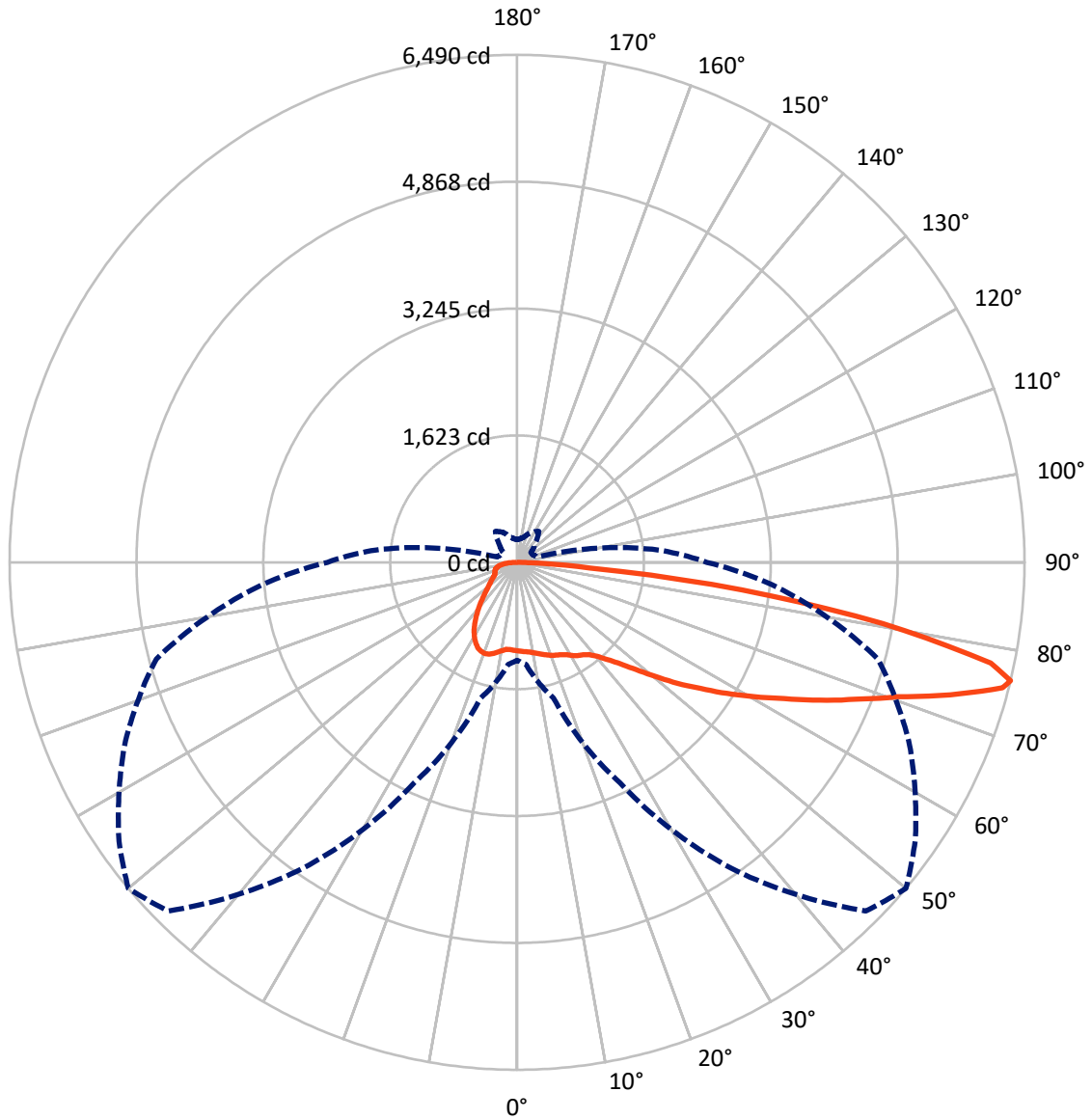
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.5 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
House Side	Lumens	2373.4	0.0	2373.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8001.6	0.0	8001.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	10375.0	0.0	10375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	1.1
10°-20°	345.2	3.3
20°-30°	583.2	5.6
30°-40°	799.4	7.7
40°-50°	1177.3	11.3
50°-60°	1852.0	17.9
60°-70°	2665.8	25.7
70°-80°	2423.9	23.4
80°-90°	418.5	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°	10375.0	100.0
0°-180°	10375.0	100.0

Coefficient of Utilization

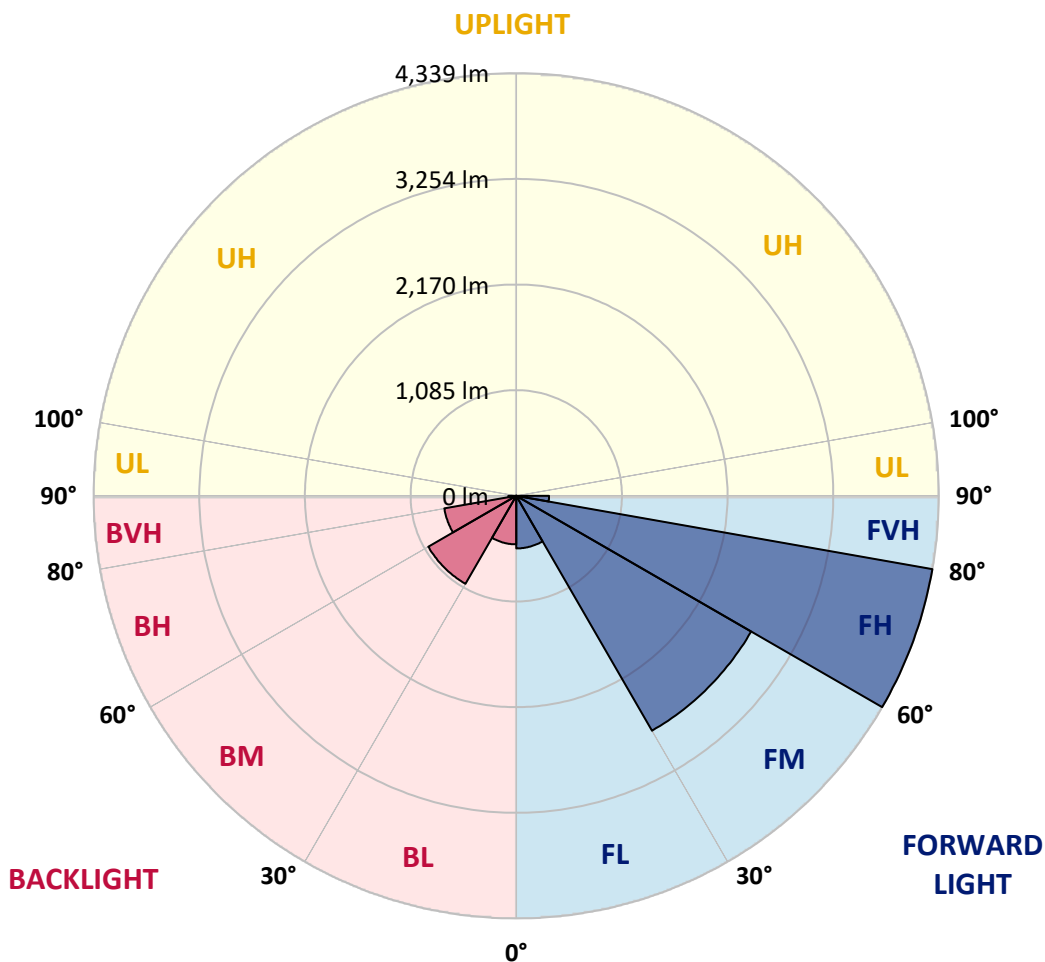


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.0	5.2			
FM (30°-60°)	2785.5	26.8			
FH (60°-80°)	4339.3	41.8			G2/5000
FVH (80°-90°)	336.8	3.2			G3/500
BL (0°-30°)	498.2	4.8	B1/500		
BM (30°-60°)	1043.1	10.1	B2/2500		
BH (60°-80°)	750.4	7.2	B2/1000		G2/1000
BVH (80°-90°)	81.6	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°	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1156.3	1156.3	1158.8	1153.7	1153.7	1141.0	1141.0	1138.5	1133.4	1130.9	1125.8
5°	1199.5	1199.5	1191.8	1179.1	1171.5	1156.3	1148.6	1143.6	1133.4	1120.7	1108.0
7.5°	1245.2	1240.1	1235.0	1214.7	1199.5	1171.5	1158.8	1151.2	1130.9	1113.1	1105.4
10°	1293.5	1285.9	1273.2	1247.7	1224.9	1191.8	1176.6	1166.4	1143.6	1128.3	1110.5
12.5°	1321.4	1321.4	1306.2	1275.7	1245.2	1204.5	1196.9	1184.2	1161.3	1141.0	1123.2
15°	1349.4	1351.9	1336.7	1301.1	1265.5	1235.0	1222.3	1214.7	1189.3	1158.8	1135.9
17.5°	1377.4	1374.8	1359.6	1318.9	1280.8	1252.8	1245.2	1235.0	1209.6	1181.7	1158.8
20°	1397.7	1392.6	1387.5	1336.7	1298.6	1280.8	1270.6	1263.0	1237.6	1207.1	1176.6
22.5°	1402.8	1407.8	1402.8	1341.8	1311.3	1290.9	1288.4	1280.8	1260.5	1232.5	1202.0
25°	1405.3	1407.8	1415.5	1357.0	1329.1	1313.8	1308.7	1303.7	1288.4	1265.5	1224.9
27.5°	1418.0	1420.6	1420.6	1367.2	1351.9	1341.8	1336.7	1336.7	1329.1	1301.1	1260.5
30°	1420.6	1423.1	1428.2	1392.6	1387.5	1379.9	1382.4	1379.9	1367.2	1336.7	1290.9
32.5°	1438.3	1440.9	1453.6	1407.8	1412.9	1420.6	1423.1	1420.6	1395.1	1369.7	1331.6
35°	1496.8	1494.2	1504.4	1446.0	1440.9	1443.4	1451.0	1448.5	1438.3	1415.5	1390.1
37.5°	1684.8	1684.8	1656.9	1534.9	1496.8	1491.7	1496.8	1509.5	1512.0	1491.7	1471.4
40°	2015.2	1997.4	1982.2	1717.9	1595.9	1565.4	1580.7	1588.3	1608.6	1608.6	1608.6
42.5°	2355.7	2358.3	2353.2	2002.5	1773.8	1697.5	1700.1	1717.9	1761.1	1768.7	1791.6
45°	2658.1	2675.9	2714.0	2332.9	2035.5	1865.3	1847.5	1865.3	1926.3	1977.1	2035.5
47.5°	2894.5	2874.1	2958.0	2678.5	2335.4	2094.0	2048.2	2053.3	2137.2	2218.5	2310.0
50°	3097.8	3102.9	3141.0	3031.7	2714.0	2353.2	2292.2	2282.0	2401.5	2487.9	2642.9
52.5°	3326.5	3311.2	3367.1	3341.7	3082.5	2670.8	2574.3	2543.8	2673.4	2795.4	2963.1
55°	3435.8	3451.0	3565.4	3628.9	3430.7	2955.5	2848.7	2858.9	2996.1	3125.7	3359.5
57.5°	3628.9	3644.1	3776.3	3908.4	3740.7	3257.9	3163.8	3163.8	3318.9	3463.7	3824.6
60°	3893.2	3895.7	4030.4	4259.1	4012.6	3550.1	3489.1	3486.6	3654.3	3822.0	4373.5
62.5°	4010.1	4040.6	4241.3	4538.7	4368.4	3908.4	3837.3	3857.6	4007.5	4203.2	4985.9
65°	3852.5	3918.6	4337.9	4726.7	4686.0	4282.0	4254.0	4282.0	4373.5	4584.4	5633.9
67.5°	3331.6	3420.5	4160.0	4853.8	4940.2	4714.0	4673.3	4668.3	4726.7	4963.0	6043.1
70°	3062.2	3115.6	3689.9	4902.1	5143.5	5151.1	5151.1	5118.1	5110.4	5283.2	6081.2
72.5°	2520.9	2576.8	3113.0	4632.7	5336.6	5735.6	5794.0	5672.0	5484.0	5448.4	5443.3
75°	1796.7	1837.3	2299.8	3644.1	5090.1	6297.2	6414.1	6177.8	5654.3	5087.6	3969.4
76°	1252.8	1311.3	1796.7	3113.0	4780.1	6307.4	6490.3	6215.9	5539.9	4777.5	3270.6
77.5°	635.3	655.6	1039.4	2091.4	3999.9	6017.7	6195.5	5888.1	5041.8	3860.1	2076.2
80°	241.4	249.0	371.0	762.4	2195.6	4673.3	4742.0	4327.7	3336.6	1649.3	747.1
82.5°	127.1	132.1	208.4	376.1	902.1	2569.2	2899.6	2414.2	1308.7	495.5	218.5
85°	63.5	68.6	122.0	228.7	447.3	803.0	930.1	879.3	434.6	188.1	81.3
87.5°	25.4	30.5	61.0	101.6	180.4	157.6	175.3	226.2	139.8	88.9	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°	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9	1130.9
2.5°	1125.8	1123.2	1125.8	1123.2	1125.8	1125.8	1128.3	1123.2	1123.2	1128.3	1120.7
5°	1108.0	1105.4	1108.0	1113.1	1115.6	1120.7	1130.9	1128.3	1133.4	1138.5	1141.0
7.5°	1100.4	1097.8	1105.4	1108.0	1115.6	1125.8	1141.0	1151.2	1156.3	1166.4	1161.3
10°	1108.0	1108.0	1118.1	1125.8	1138.5	1151.2	1163.9	1174.1	1186.8	1194.4	1191.8
12.5°	1120.7	1118.1	1135.9	1146.1	1163.9	1176.6	1186.8	1191.8	1202.0	1212.2	1209.6
15°	1133.4	1135.9	1161.3	1181.7	1202.0	1207.1	1209.6	1204.5	1209.6	1214.7	1214.7
17.5°	1158.8	1161.3	1189.3	1212.2	1230.0	1224.9	1212.2	1199.5	1199.5	1202.0	1204.5
20°	1179.1	1184.2	1217.3	1237.6	1247.7	1227.4	1207.1	1191.8	1184.2	1186.8	1184.2
22.5°	1202.0	1212.2	1245.2	1255.4	1240.1	1214.7	1189.3	1169.0	1169.0	1171.5	1171.5
25°	1230.0	1235.0	1257.9	1252.8	1224.9	1186.8	1166.4	1158.8	1156.3	1158.8	1161.3
27.5°	1255.4	1257.9	1270.6	1235.0	1181.7	1141.0	1133.4	1135.9	1138.5	1141.0	1143.6
30°	1288.4	1293.5	1280.8	1209.6	1128.3	1082.6	1082.6	1097.8	1102.9	1110.5	1108.0
32.5°	1329.1	1334.2	1296.0	1176.6	1059.7	1014.0	1016.5	1039.4	1054.6	1059.7	1062.2
35°	1397.7	1387.5	1306.2	1130.9	986.0	930.1	932.6	960.6	980.9	988.5	983.5
37.5°	1481.5	1479.0	1321.4	1072.4	894.5	843.7	846.2	858.9	879.3	881.8	884.4
40°	1621.3	1601.0	1346.9	996.2	803.0	754.7	749.7	757.3	754.7	759.8	762.4
42.5°	1822.1	1768.7	1379.9	909.8	721.7	670.9	665.8	653.1	637.9	622.6	615.0
45°	2058.4	1974.5	1420.6	820.8	637.9	592.1	579.4	564.2	533.7	500.6	490.5
47.5°	2363.4	2203.3	1466.3	731.9	559.1	523.5	513.3	490.5	454.9	416.8	409.1
50°	2675.9	2472.6	1512.0	658.2	495.5	475.2	465.0	442.2	396.4	360.9	353.2
52.5°	3039.3	2739.5	1560.3	592.1	439.6	439.6	432.0	396.4	353.2	320.2	315.1
55°	3458.6	3013.9	1636.6	528.6	399.0	409.1	399.0	363.4	322.7	299.9	297.3
57.5°	3959.3	3362.1	1733.1	460.0	363.4	371.0	371.0	345.6	317.7	302.4	299.9
60°	4462.4	3715.3	1794.1	409.1	335.4	343.1	358.3	345.6	327.8	320.2	317.7
62.5°	4945.3	4076.1	1689.9	365.9	307.5	330.4	368.5	371.0	353.2	355.8	355.8
65°	5306.1	4350.6	1367.2	327.8	289.7	338.0	399.0	401.5	371.0	363.4	360.9
67.5°	5430.6	4426.8	919.9	302.4	279.5	343.1	434.6	424.4	371.0	355.8	348.1
70°	5194.3	4147.3	597.2	279.5	264.3	338.0	462.5	437.1	368.5	345.6	335.4
72.5°	4355.7	3537.4	399.0	259.2	249.0	332.9	480.3	437.1	360.9	327.8	317.7
75°	3024.1	2416.7	297.3	233.8	226.2	325.3	485.4	429.5	343.1	307.5	299.9
76°	2426.9	1811.9	269.4	223.6	216.0	320.2	482.8	421.8	330.4	297.3	289.7
77.5°	1532.4	1041.9	226.2	205.8	200.8	310.0	472.7	404.1	312.6	279.5	271.9
80°	536.2	381.2	172.8	167.7	170.3	287.2	444.7	368.5	277.0	246.5	236.3
82.5°	213.5	175.3	129.6	129.6	134.7	246.5	401.5	325.3	241.4	203.3	188.1
85°	83.9	76.2	91.5	91.5	96.6	200.8	335.4	254.1	165.2	127.1	122.0
87.5°	25.4	35.6	40.7	43.2	45.7	101.6	190.6	111.8	73.7	53.4	43.2
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)