

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: P594880

Luminaire Tested: **ISS-PA1F-735-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1F-735-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10683 lumens  
Efficiency: N/A  
Efficacy: 113.2 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

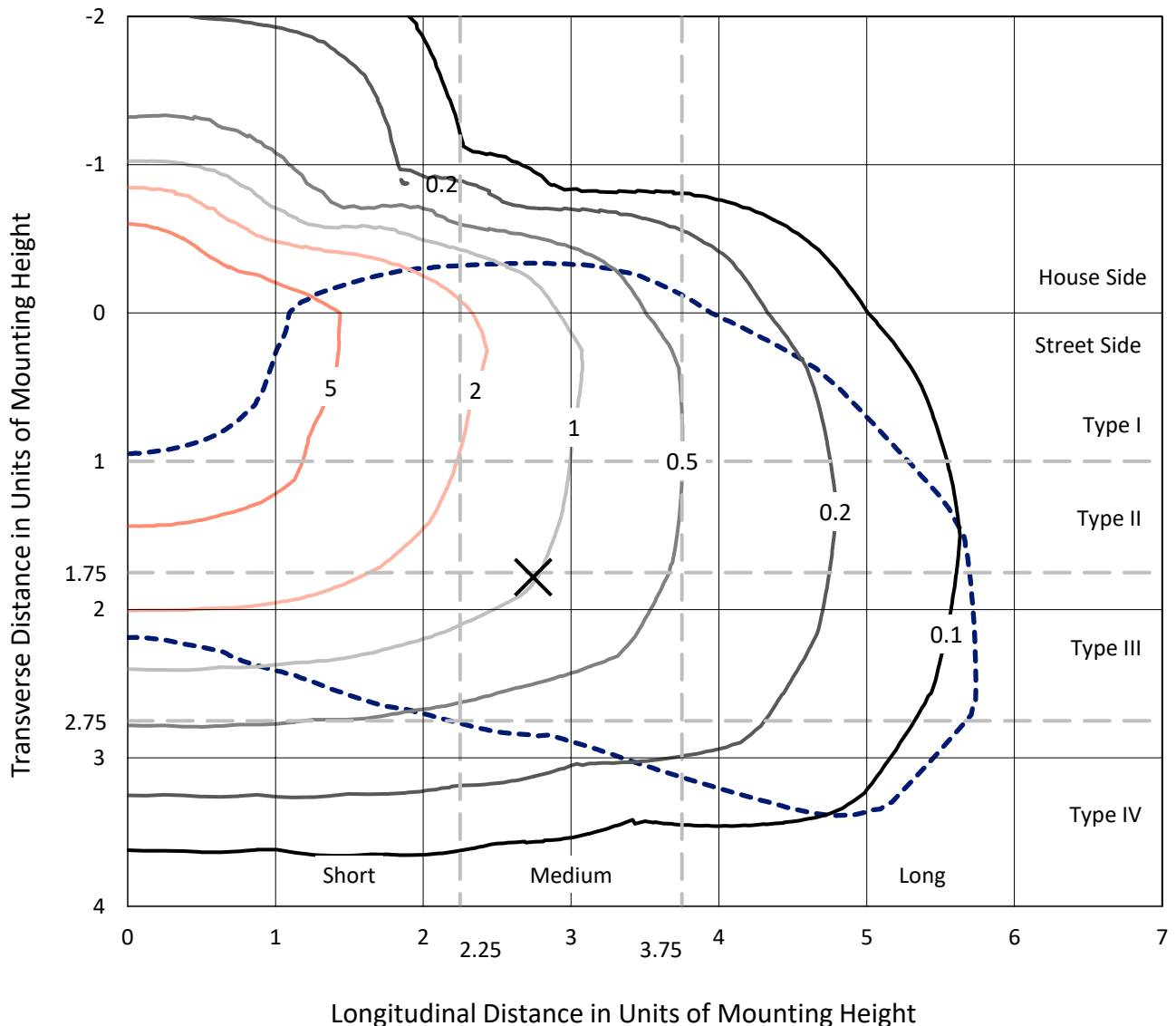
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

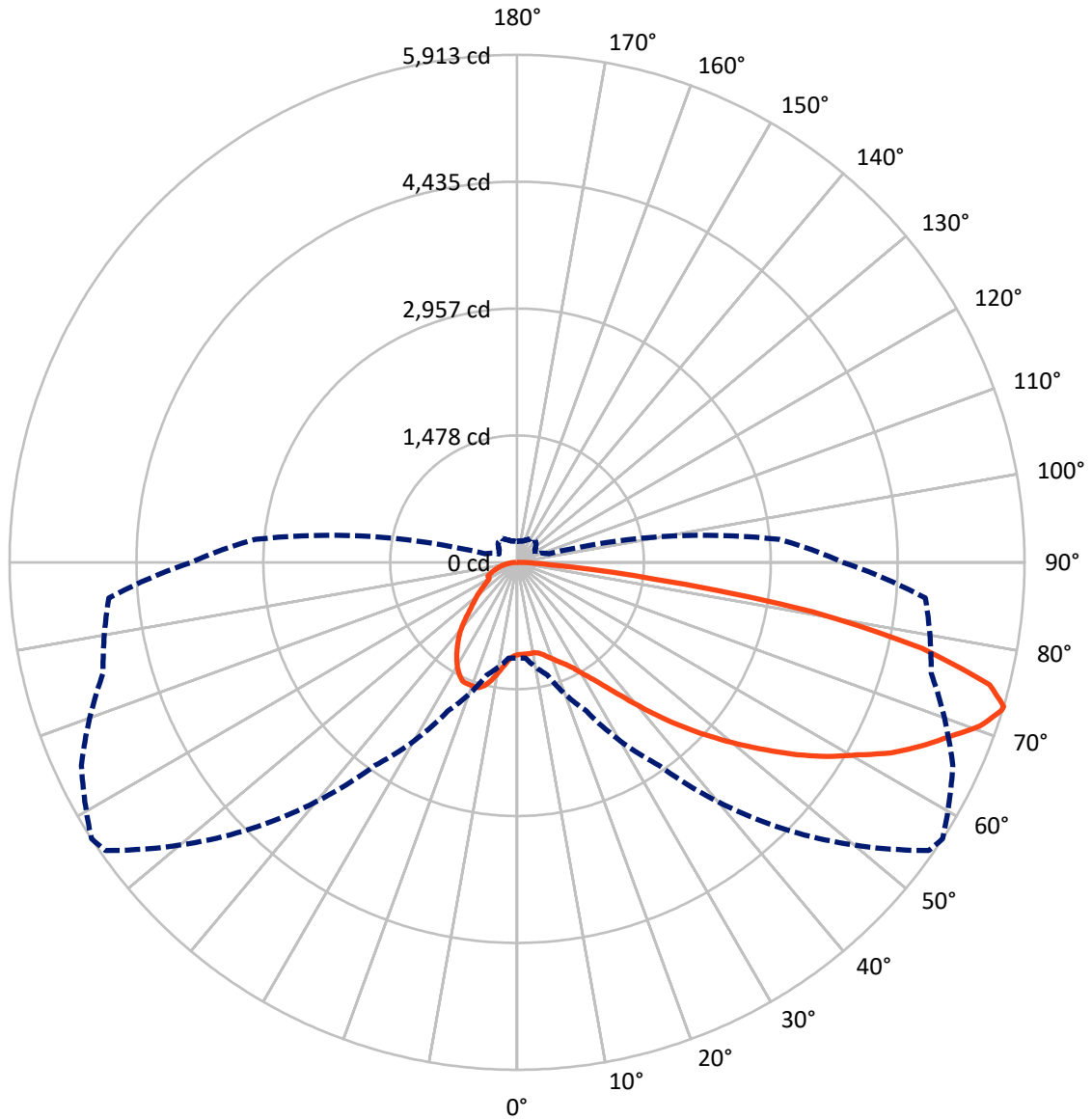
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2548.6	0.0	2548.6
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	8134.4	0.0	8134.4
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	10683.0	0.0	10683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	1.0
10°-20°	353.4	3.3
20°-30°	652.4	6.1
30°-40°	1007.5	9.4
40°-50°	1516.5	14.2
50°-60°	2219.5	20.8
60°-70°	2621.0	24.5
70°-80°	1876.5	17.6
80°-90°	328.8	3.1
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°	10683.0	100.0
0°-180°	10683.0	100.0

**Coefficient of Utilization**

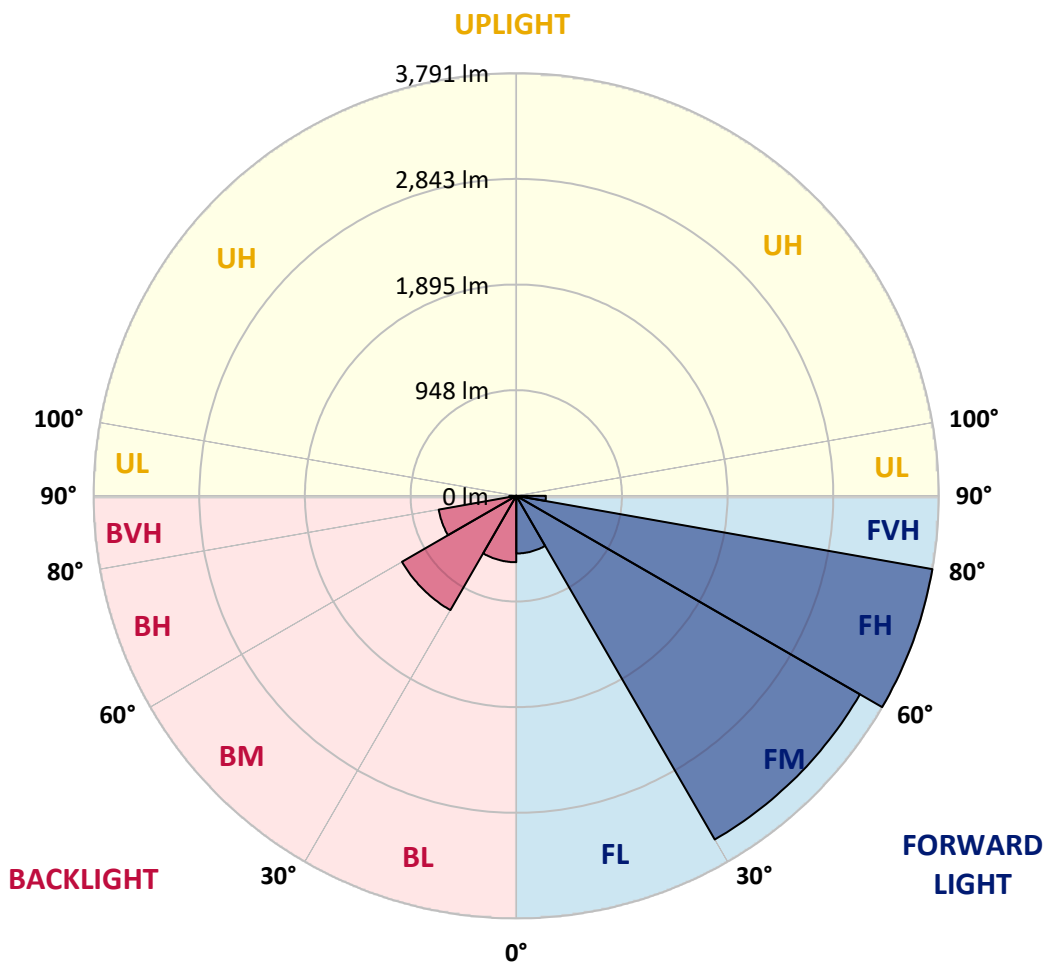


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.6	4.8			
FM (30°-60°)	3559.9	33.3			
FH (60°-80°)	3790.9	35.5			G2/5000
FVH (80°-90°)	266.0	2.5			G3/500
BL (0°-30°)	595.6	5.6	B2/1000		
BM (30°-60°)	1183.5	11.1	B2/2500		
BH (60°-80°)	706.6	6.6	B2/1000		G2/1000
BVH (80°-90°)	62.8	0.6			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°	55°	57°	65°	75°	85°
0°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3
2.5°	1063.2	1068.5	1065.8	1068.5	1076.3	1071.1	1071.1	1073.7	1076.3	1073.7	1078.9
5°	1018.7	1021.3	1026.6	1037.0	1055.4	1060.6	1073.7	1073.7	1078.9	1084.2	1092.0
7.5°	945.4	950.6	961.1	971.6	1003.0	1034.4	1068.5	1073.7	1092.0	1105.1	1110.4
10°	932.3	937.5	940.1	955.9	987.3	1018.7	1060.6	1071.1	1105.1	1126.1	1149.6
12.5°	919.2	924.4	932.3	953.2	992.5	1026.6	1071.1	1081.6	1123.5	1165.4	1194.2
15°	929.7	932.3	940.1	961.1	1000.4	1047.5	1105.1	1113.0	1160.1	1212.5	1257.0
17.5°	955.9	958.5	955.9	974.2	1010.8	1065.8	1144.4	1157.5	1215.1	1267.5	1312.0
20°	1016.1	1018.7	1008.2	1008.2	1034.4	1089.4	1186.3	1204.6	1275.3	1333.0	1377.5
22.5°	1147.0	1141.8	1115.6	1081.6	1081.6	1126.1	1233.4	1259.6	1348.7	1395.8	1435.1
25°	1333.0	1333.0	1291.1	1228.2	1186.3	1181.1	1288.4	1317.2	1422.0	1479.6	1503.2
27.5°	1558.2	1560.8	1492.7	1408.9	1327.7	1288.4	1367.0	1395.8	1513.7	1573.9	1581.7
30°	1757.2	1759.8	1691.7	1613.2	1513.7	1427.2	1471.8	1503.2	1639.4	1686.5	1660.3
32.5°	1956.2	1958.8	1911.7	1804.3	1699.6	1592.2	1605.3	1623.6	1762.4	1807.0	1765.1
35°	2129.1	2136.9	2089.8	2008.6	1898.6	1801.7	1778.1	1780.8	1906.5	1935.3	1880.3
37.5°	2304.5	2304.5	2275.7	2199.8	2105.5	1998.1	1966.7	1974.6	2087.2	2116.0	2037.4
40°	2527.1	2537.6	2521.9	2427.6	2320.2	2231.2	2199.8	2210.2	2333.3	2317.6	2233.8
42.5°	2796.9	2820.4	2794.2	2692.1	2576.9	2477.4	2477.4	2477.4	2582.1	2584.7	2459.0
45°	3142.5	3142.5	3116.3	3027.3	2875.4	2775.9	2741.9	2749.7	2841.4	2851.8	2705.2
47.5°	3430.6	3456.8	3428.0	3362.5	3242.0	3147.8	3040.4	3027.3	3103.2	3103.2	2977.5
50°	3663.7	3710.8	3687.2	3716.0	3629.6	3582.5	3362.5	3325.8	3352.0	3378.2	3239.4
52.5°	3857.5	3894.1	3886.3	3970.1	4012.0	4038.2	3689.9	3632.2	3653.2	3650.6	3524.9
55°	3870.6	3883.6	4001.5	4190.0	4355.0	4478.1	4019.8	3957.0	3936.0	3925.5	3828.7
57.5°	3794.6	3802.5	4038.2	4260.7	4619.5	4760.9	4331.5	4268.6	4239.8	4203.1	4163.9
60°	3611.3	3650.6	3959.6	4302.6	4776.6	4980.9	4622.1	4556.7	4535.7	4457.2	4546.2
62.5°	3378.2	3396.6	3705.6	4216.2	4797.6	5075.2	4928.5	4889.3	4823.8	4711.2	4886.6
65°	3048.3	3045.6	3318.0	3962.2	4690.2	5122.3	5187.8	5166.8	5085.7	4891.9	5190.4
67.5°	2503.5	2563.8	2830.9	3511.8	4431.0	5169.5	5452.3	5426.1	5297.8	5054.2	5334.4
70°	1909.1	1945.8	2249.5	2836.1	3915.1	5041.1	5711.5	5719.4	5486.3	5088.3	5271.6
72.5°	1217.7	1280.6	1521.5	2066.2	3134.7	4564.5	5866.1	5902.7	5591.1	5041.1	4881.4
73°	1115.6	1120.8	1356.5	1911.7	2891.1	4394.3	5855.6	5913.2	5601.6	4994.0	4774.0
75°	665.2	694.0	835.4	1270.1	2063.6	3530.1	5572.8	5688.0	5546.6	4784.5	4184.8
77.5°	311.6	332.6	411.1	670.4	1123.5	2123.8	4685.0	4821.2	4915.4	4187.4	3189.7
80°	165.0	167.6	201.6	337.8	602.3	874.7	3265.6	3490.8	3624.4	3153.0	2144.8
82.5°	138.8	138.8	157.1	217.4	385.0	340.4	1346.1	1602.7	1964.1	1552.9	843.2
85°	112.6	115.2	157.1	162.4	275.0	175.5	322.1	403.3	762.1	686.1	94.3
87.5°	36.7	41.9	89.0	115.2	146.7	68.1	81.2	89.0	89.0	130.9	31.4
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°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3
2.5°	1081.6	1081.6	1084.2	1086.8	1092.0	1092.0	1097.3	1099.9	1105.1	1107.7	1099.9
5°	1092.0	1097.3	1102.5	1118.2	1136.5	1152.3	1168.0	1181.1	1194.2	1202.0	1199.4
7.5°	1120.8	1128.7	1149.6	1178.4	1215.1	1238.7	1262.2	1285.8	1296.3	1301.5	1301.5
10°	1160.1	1175.8	1215.1	1262.2	1304.2	1340.8	1359.1	1374.9	1380.1	1385.3	1380.1
12.5°	1215.1	1236.1	1296.3	1356.5	1403.7	1422.0	1419.4	1398.4	1369.6	1364.4	1359.1
15°	1285.8	1312.0	1380.1	1450.8	1487.5	1463.9	1403.7	1382.7	1377.5	1393.2	1388.0
17.5°	1346.1	1377.5	1461.3	1534.6	1526.7	1445.6	1427.2	1437.7	1432.5	1435.1	1435.1
20°	1403.7	1448.2	1537.2	1587.0	1518.9	1466.5	1450.8	1437.7	1422.0	1427.2	1422.0
22.5°	1477.0	1508.4	1610.5	1613.2	1508.4	1466.5	1432.5	1406.3	1401.0	1403.7	1406.3
25°	1534.6	1584.4	1673.4	1594.8	1508.4	1424.6	1377.5	1372.2	1374.9	1390.6	1385.3
27.5°	1613.2	1662.9	1723.2	1584.4	1445.6	1356.5	1338.2	1335.6	1317.2	1322.5	1322.5
30°	1686.5	1746.7	1749.3	1584.4	1367.0	1298.9	1272.7	1225.6	1186.3	1194.2	1191.5
32.5°	1786.0	1838.4	1754.6	1521.5	1278.0	1223.0	1152.3	1078.9	1060.6	1071.1	1073.7
35°	1901.2	1943.1	1759.8	1416.8	1188.9	1115.6	987.3	945.4	942.8	950.6	958.5
37.5°	2053.1	2076.7	1799.1	1296.3	1102.5	948.0	848.5	838.0	814.4	798.7	801.3
40°	2239.1	2210.2	1875.0	1188.9	1000.4	796.1	754.2	725.4	680.9	636.4	644.2
42.5°	2445.9	2364.8	1898.6	1102.5	861.6	701.8	662.6	618.0	563.0	515.9	513.3
45°	2668.5	2537.6	1877.7	1034.4	722.8	631.1	589.2	536.8	471.4	432.1	432.1
47.5°	2933.0	2702.6	1812.2	979.4	625.9	568.3	515.9	463.5	419.0	382.3	382.3
50°	3223.7	2893.7	1765.1	882.5	557.8	508.0	455.7	413.8	379.7	350.9	350.9
52.5°	3530.1	3074.4	1725.8	741.1	497.6	453.0	416.4	382.3	353.5	316.9	311.6
55°	3841.7	3247.3	1744.1	604.9	442.6	413.8	390.2	356.2	345.7	337.8	332.6
57.5°	4166.5	3435.8	1788.6	494.9	395.4	392.8	382.3	405.9	429.5	413.8	405.9
60°	4420.5	3582.5	1793.9	416.4	366.6	413.8	466.1	474.0	411.1	374.5	371.9
62.5°	4622.1	3721.3	1670.8	361.4	374.5	487.1	497.6	419.0	356.2	340.4	340.4
65°	4726.9	3771.0	1343.4	330.0	390.2	466.1	450.4	377.1	332.6	330.0	330.0
67.5°	4674.5	3731.8	940.1	295.9	345.7	403.3	403.3	345.7	306.4	319.5	314.3
70°	4423.1	3538.0	620.6	267.1	303.8	364.0	374.5	322.1	285.4	293.3	285.4
72.5°	3899.4	3192.3	408.5	235.7	261.9	322.1	348.3	295.9	261.9	259.3	251.4
73°	3797.2	3061.3	385.0	230.5	254.0	311.6	340.4	290.7	256.6	248.8	243.5
75°	3221.1	2553.3	290.7	206.9	225.2	280.2	316.9	272.4	235.7	225.2	220.0
77.5°	2346.4	1770.3	217.4	175.5	188.6	243.5	280.2	248.8	209.5	196.4	193.8
80°	1463.9	963.7	162.4	141.4	149.3	204.3	246.2	222.6	180.7	165.0	162.4
82.5°	573.5	314.3	112.6	104.8	110.0	154.5	206.9	193.8	151.9	138.8	130.9
85°	94.3	107.4	73.3	70.7	70.7	110.0	157.1	149.3	102.1	89.0	78.6
87.5°	26.2	49.8	28.8	26.2	26.2	47.1	86.4	68.1	41.9	34.0	31.4
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)