

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: INVUE

Report Number: P401872

Luminaire Tested: **ENT-SA1F-740-U-T3**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-SA1F-740-U-T3  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7927 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

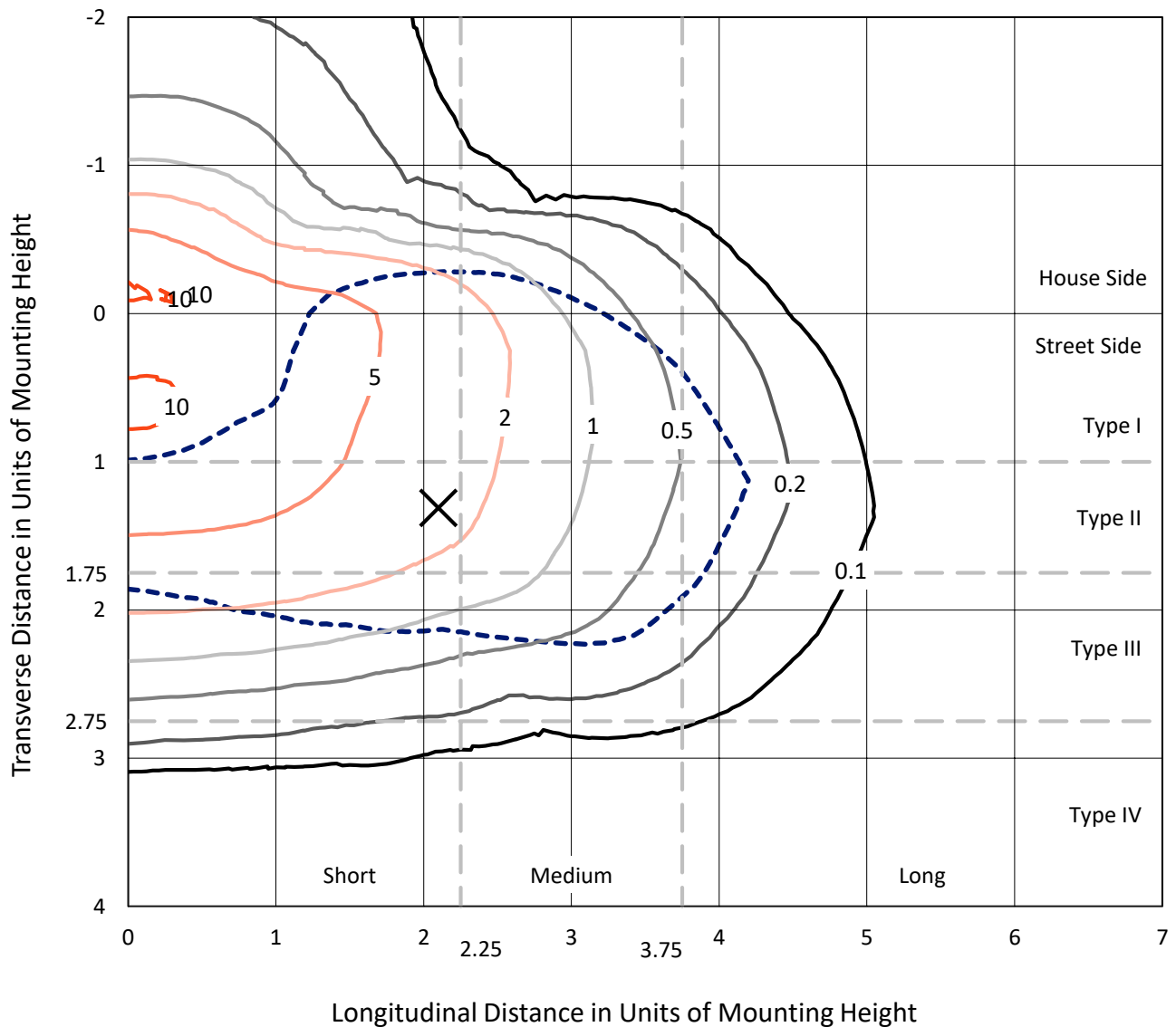
Input Watts (W): 66.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P401872  
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### Iso-Footcandle Lines of Horizontal Illumination

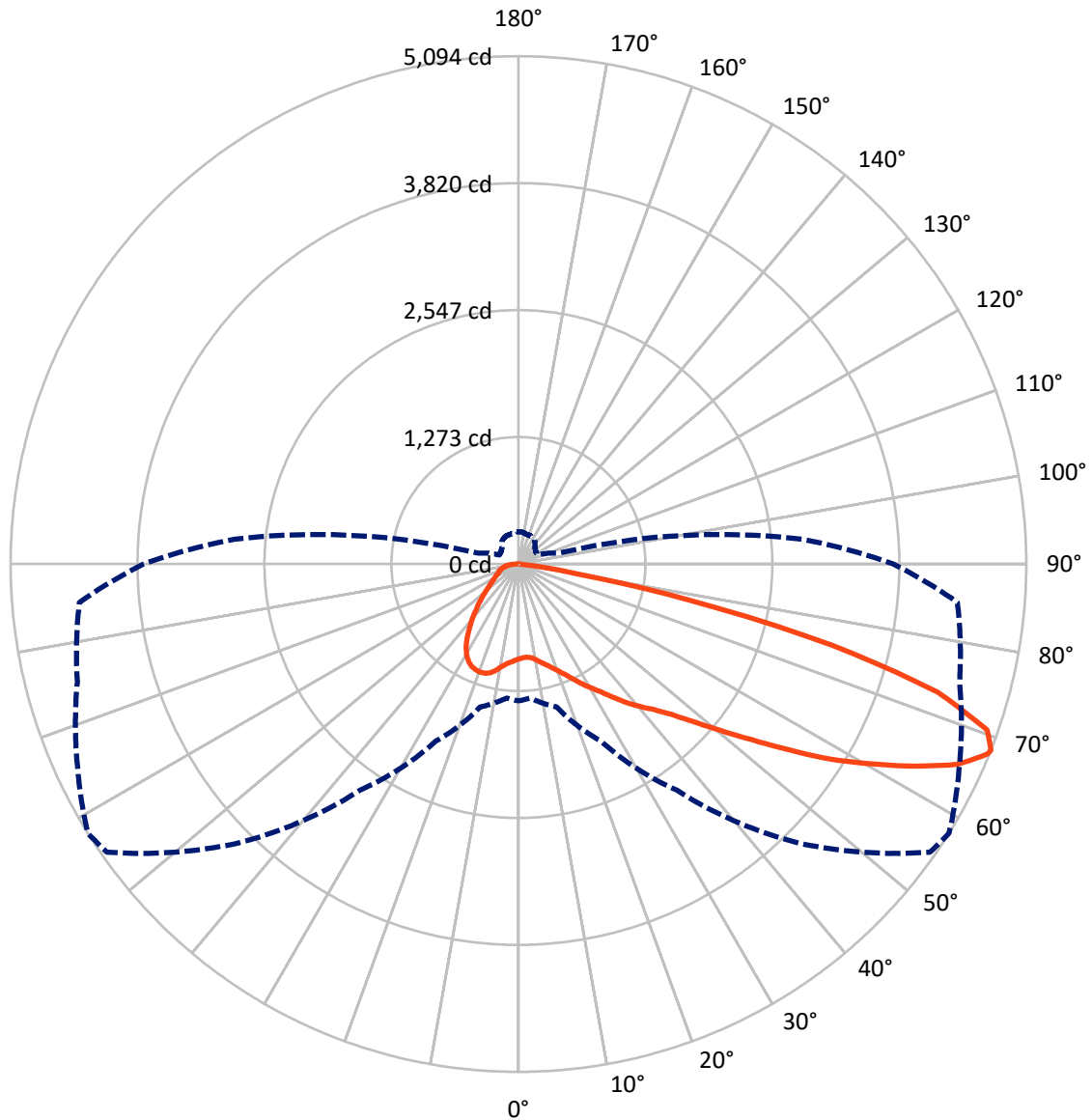
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P401872  
CATALOG NUMBER: ENT-SA1F-740-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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CATALOG NUMBER: ENT-SA1F-740-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1856.1	0.0	1856.1
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	6070.9	0.0	6070.9
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	7927.0	0.0	7927.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	1.2
10°-20°	306.7	3.9
20°-30°	551.5	7.0
30°-40°	810.2	10.2
40°-50°	1188.2	15.0
50°-60°	1776.1	22.4
60°-70°	2076.8	26.2
70°-80°	1023.9	12.9
80°-90°	99.9	1.3
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°	7927.0	100.0
0°-180°	7927.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P401872

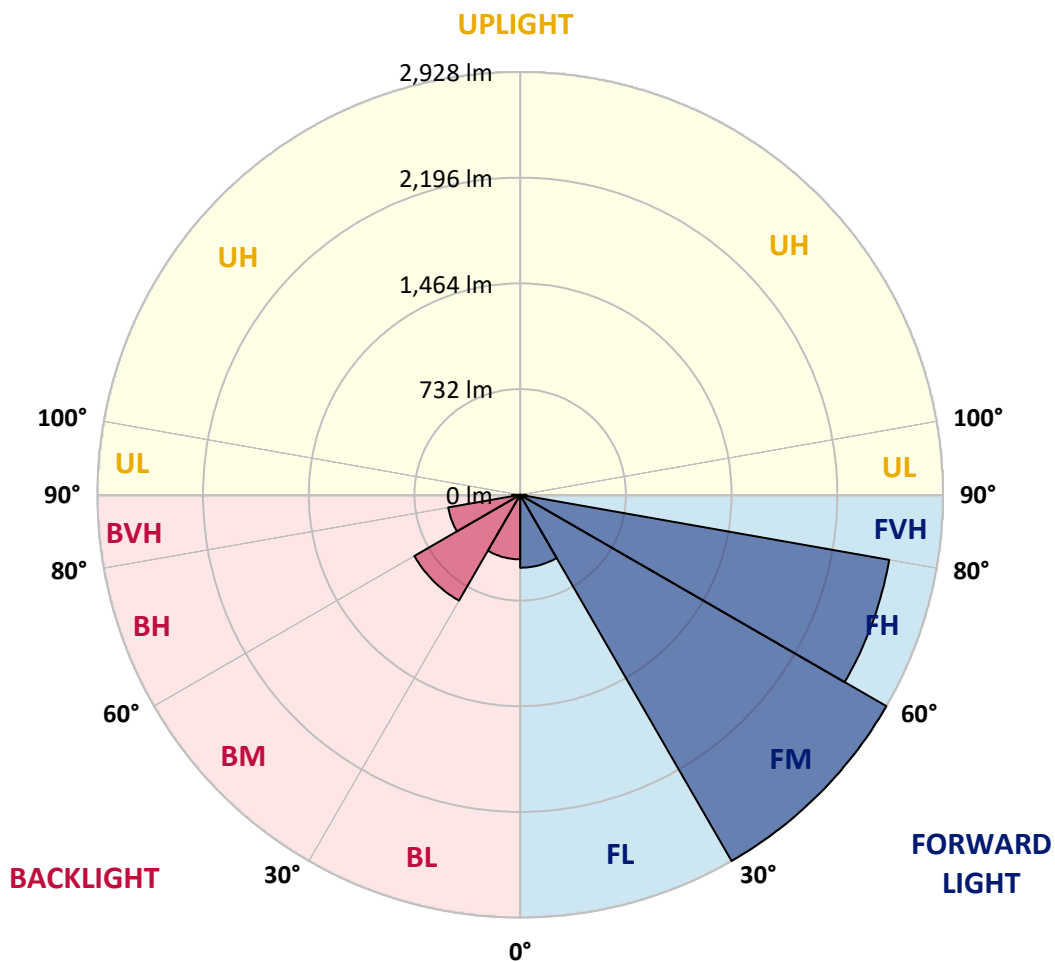
CATALOG NUMBER: ENT-SA1F-740-U-T3

**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°)	2927.9	36.9			
FH (60°-80°)	2595.0	32.7			G2/5000
FVH (80°-90°)	43.0	0.5			G1/100
BL (0°-30°)	446.9	5.6	B1/500		
BM (30°-60°)	846.5	10.7	B1/1000		
BH (60°-80°)	505.7	6.4	B2/1000		G2/1000
BVH (80°-90°)	56.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





REPORT NUMBER: P401872

CATALOG NUMBER: ENT-SA1F-740-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9
2.5°	928.7	928.7	932.0	933.1	935.3	937.5	939.7	940.9	944.2	948.6	950.8
5°	920.9	922.0	924.3	925.4	928.7	933.1	936.4	938.6	944.2	953.0	958.6
7.5°	938.6	942.0	943.1	944.2	945.3	948.6	948.6	949.7	955.2	964.1	971.8
10°	967.4	969.6	973.0	976.3	979.6	981.8	975.2	976.3	978.5	987.3	998.4
12.5°	1003.9	1003.9	1005.1	1009.5	1012.8	1019.4	1012.8	1012.8	1012.8	1020.6	1033.8
15°	1044.9	1042.7	1042.7	1047.1	1048.2	1052.7	1049.3	1049.3	1053.8	1061.5	1074.8
17.5°	1091.4	1094.7	1091.4	1089.2	1085.9	1088.1	1090.3	1092.5	1101.4	1113.5	1121.3
20°	1158.9	1164.4	1162.2	1153.4	1139.0	1132.3	1140.1	1144.5	1162.2	1176.6	1177.7
22.5°	1266.3	1263.0	1259.6	1244.1	1215.4	1197.7	1198.8	1205.4	1233.1	1255.2	1244.1
25°	1365.9	1369.2	1369.2	1347.1	1309.5	1272.9	1276.2	1279.6	1307.2	1327.2	1297.3
27.5°	1486.6	1484.3	1483.2	1453.3	1408.0	1372.5	1353.7	1362.6	1382.5	1390.3	1332.7
30°	1611.6	1620.5	1611.6	1569.6	1526.4	1481.0	1443.4	1441.2	1451.1	1450.0	1374.8
32.5°	1762.2	1754.4	1751.1	1702.4	1648.2	1588.4	1540.8	1533.0	1527.5	1519.8	1424.6
35°	1878.4	1888.4	1888.4	1846.3	1782.1	1723.4	1649.3	1642.6	1629.3	1603.9	1489.9
37.5°	2015.6	2013.4	2021.2	1972.5	1908.3	1851.8	1783.2	1764.4	1734.5	1696.9	1567.4
40°	2149.6	2155.1	2172.8	2114.2	2055.5	2011.2	1913.8	1879.5	1834.1	1799.8	1680.3
42.5°	2332.2	2340.0	2346.6	2297.9	2228.2	2188.3	2037.8	1994.6	1969.2	1962.5	1829.7
45°	2553.6	2566.9	2572.4	2528.1	2488.3	2393.1	2193.9	2154.0	2126.3	2155.1	2033.4
47.5°	2766.1	2759.5	2784.9	2783.8	2788.3	2674.2	2418.6	2358.8	2332.2	2405.3	2266.9
50°	2885.7	2895.6	2951.0	3007.4	3086.0	3004.1	2678.7	2618.9	2587.9	2678.7	2541.4
52.5°	2947.6	2960.9	3035.1	3193.4	3360.5	3321.8	2991.9	2925.5	2898.9	2987.5	2835.9
55°	2953.2	2960.9	3060.6	3306.3	3569.7	3581.9	3349.4	3286.4	3249.8	3307.4	3156.8
57.5°	2861.3	2838.1	3009.6	3322.9	3703.7	3853.1	3742.4	3697.0	3594.1	3656.1	3555.3
60°	2697.5	2720.7	2889.0	3254.3	3760.1	4064.5	4136.4	4067.8	3948.3	3973.7	3984.8
62.5°	2449.5	2479.4	2654.3	3094.9	3714.7	4243.8	4500.6	4466.3	4305.8	4292.5	4312.4
65°	2096.4	2078.7	2273.6	2746.2	3500.0	4303.6	4858.1	4843.8	4652.3	4496.2	4503.9
67.5°	1512.0	1495.4	1631.6	2119.7	2918.9	4081.1	5048.5	5080.6	4861.5	4585.8	4466.3
68°	1372.5	1349.3	1485.4	1959.2	2769.4	3952.7	5038.6	5093.9	4877.0	4580.3	4419.8
70°	790.3	752.7	884.4	1278.5	2038.9	3327.3	4834.9	4987.6	4840.4	4472.9	4115.4
72.5°	247.9	247.9	342.0	516.9	1000.6	2105.3	4136.4	4396.6	4427.6	4065.6	3420.3
75°	155.0	155.0	178.2	244.6	398.5	893.3	2853.6	3249.8	3517.7	3422.5	2493.8
77.5°	105.2	102.9	118.4	151.6	222.5	286.7	1432.3	1760.0	2151.8	2336.6	1458.9
80°	57.6	58.7	73.1	90.8	126.2	132.8	420.6	594.4	947.5	1110.2	553.4
82.5°	33.2	32.1	35.4	39.8	55.3	57.6	120.7	148.3	247.9	230.2	148.3
85°	0.0	1.1	1.1	1.1	2.2	5.5	15.5	23.2	37.6	52.0	36.5
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	2.2	2.2	2.2	2.2	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P401872

CATALOG NUMBER: ENT-SA1F-740-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9	951.9
2.5°	953.0	956.4	961.9	966.3	968.5	966.3	974.1	973.0	975.2	975.2	977.4
5°	963.0	967.4	977.4	982.9	988.5	990.7	999.5	1001.7	1006.2	1008.4	1007.3
7.5°	977.4	982.9	995.1	1005.1	1012.8	1018.3	1032.7	1039.4	1046.0	1048.2	1050.4
10°	1003.9	1011.7	1025.0	1037.2	1048.2	1056.0	1068.1	1077.0	1083.6	1085.9	1088.1
12.5°	1039.4	1048.2	1064.8	1081.4	1093.6	1098.0	1096.9	1094.7	1094.7	1093.6	1094.7
15°	1080.3	1089.2	1110.2	1125.7	1126.8	1112.4	1092.5	1082.5	1080.3	1080.3	1081.4
17.5°	1127.9	1139.0	1152.3	1161.1	1140.1	1104.7	1081.4	1071.5	1069.3	1068.1	1065.9
20°	1182.2	1188.8	1193.2	1182.2	1135.7	1094.7	1068.1	1053.8	1042.7	1041.6	1037.2
22.5°	1239.7	1237.5	1232.0	1192.1	1123.5	1071.5	1034.9	1008.4	994.0	992.9	988.5
25°	1281.8	1272.9	1256.3	1194.3	1101.4	1033.8	981.8	939.7	920.9	912.1	914.3
27.5°	1309.5	1290.6	1261.9	1183.3	1062.6	976.3	903.2	847.9	820.2	815.8	819.1
30°	1342.7	1312.8	1266.3	1155.6	1007.3	895.5	800.3	744.9	729.4	721.7	723.9
32.5°	1382.5	1343.8	1280.7	1113.5	937.5	801.4	698.4	659.7	642.0	627.6	632.0
35°	1434.5	1385.8	1303.9	1053.8	849.0	701.8	625.4	590.0	557.9	542.4	543.5
37.5°	1495.4	1440.1	1323.8	984.0	752.7	626.5	562.3	520.2	480.4	450.5	445.0
40°	1592.8	1547.4	1340.4	906.5	660.8	564.5	500.3	452.7	415.1	385.2	381.9
42.5°	1755.5	1676.9	1341.6	813.6	582.2	511.4	449.4	397.4	355.3	329.9	328.7
45°	1947.0	1825.3	1318.3	713.9	513.6	458.3	404.0	345.3	321.0	304.4	302.2
47.5°	2173.9	1995.7	1267.4	621.0	454.9	406.2	357.5	322.1	304.4	292.2	292.2
50°	2432.9	2196.1	1216.5	541.3	398.5	364.2	331.0	312.1	298.9	287.8	286.7
52.5°	2725.2	2432.9	1199.9	460.5	352.0	325.4	322.1	304.4	293.3	285.6	283.4
55°	3073.8	2698.6	1215.4	397.4	315.5	309.9	316.6	302.2	294.4	282.3	278.9
57.5°	3476.7	2957.6	1198.8	344.2	290.0	295.5	309.9	302.2	295.5	280.0	275.6
60°	3856.4	3188.9	1085.9	300.0	265.7	277.8	301.1	292.2	282.3	278.9	276.7
62.5°	4060.1	3264.2	865.6	265.7	246.8	260.1	286.7	275.6	269.0	276.7	277.8
65°	4062.3	3179.0	636.5	240.2	231.3	244.6	272.3	269.0	273.4	291.1	294.4
67.5°	3836.5	2920.0	449.4	217.0	215.8	232.4	278.9	301.1	304.4	322.1	322.1
68°	3759.0	2855.8	417.3	213.6	212.5	232.4	284.5	306.6	308.8	325.4	324.3
70°	3334.0	2414.1	302.2	200.3	207.0	249.1	314.4	322.1	308.8	327.6	326.5
72.5°	2605.6	1785.4	225.8	186.0	197.0	245.7	316.6	308.8	288.9	293.3	287.8
75°	1761.1	1137.9	186.0	170.5	174.9	208.1	287.8	291.1	267.9	263.4	256.8
77.5°	922.0	533.5	150.5	151.6	156.1	180.4	256.8	264.5	243.5	230.2	228.0
80°	339.8	211.4	122.9	133.9	136.1	158.3	220.3	232.4	212.5	202.6	200.3
82.5°	124.0	105.2	101.8	117.3	115.1	135.0	192.6	201.5	180.4	170.5	164.9
85°	34.3	38.7	64.2	91.9	89.7	105.2	155.0	162.7	145.0	119.5	116.2
87.5°	2.2	7.7	25.5	54.2	56.5	65.3	111.8	122.9	107.4	88.6	87.4
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)