

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: P401804

Luminaire Tested: **ENV-SA1F-727-U-T3**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401804  
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: ENV-SA1F-727-U-T3  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6630 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

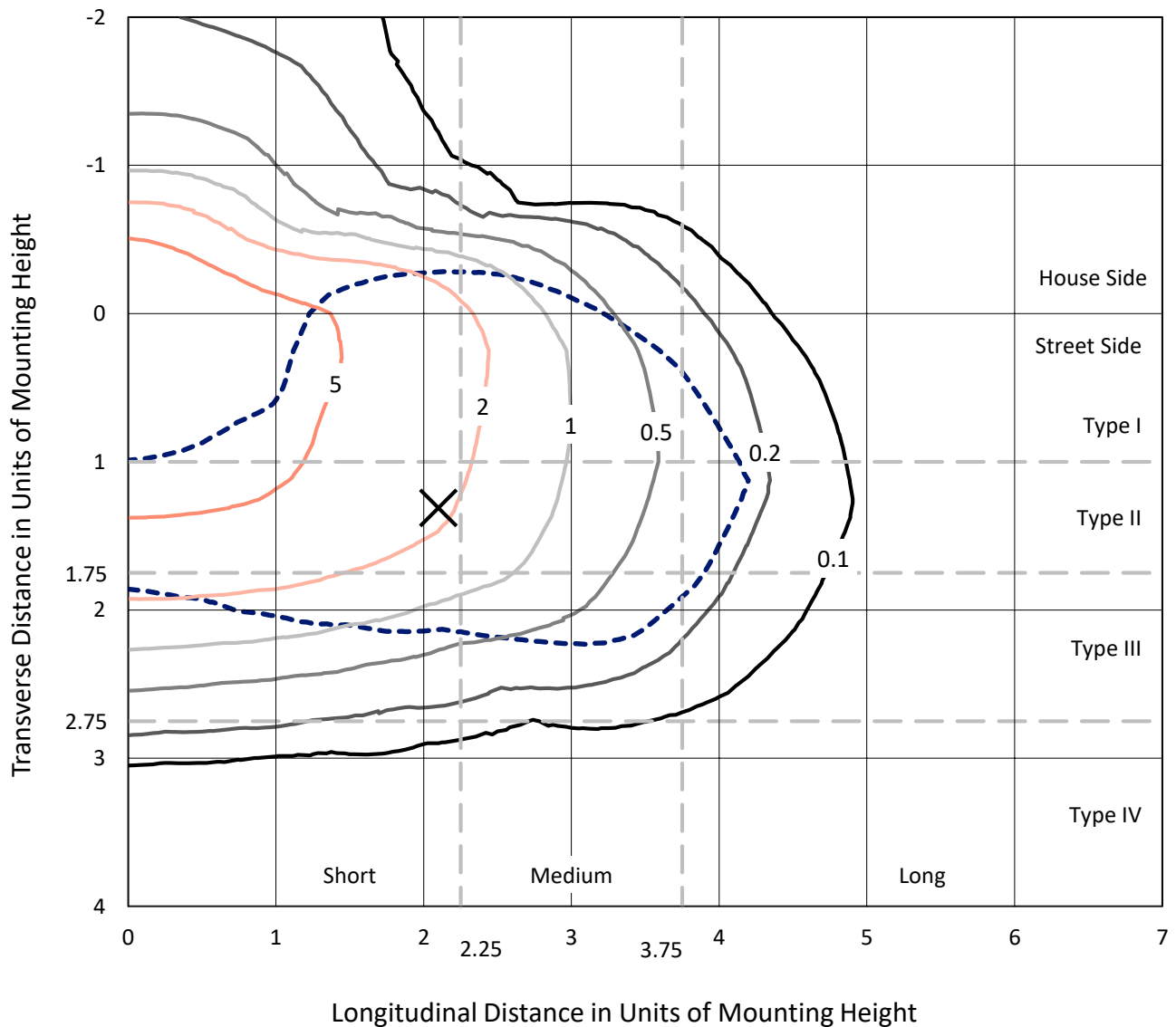
Input Watts (W): 66.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P401804  
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### Iso-Footcandle Lines of Horizontal Illumination

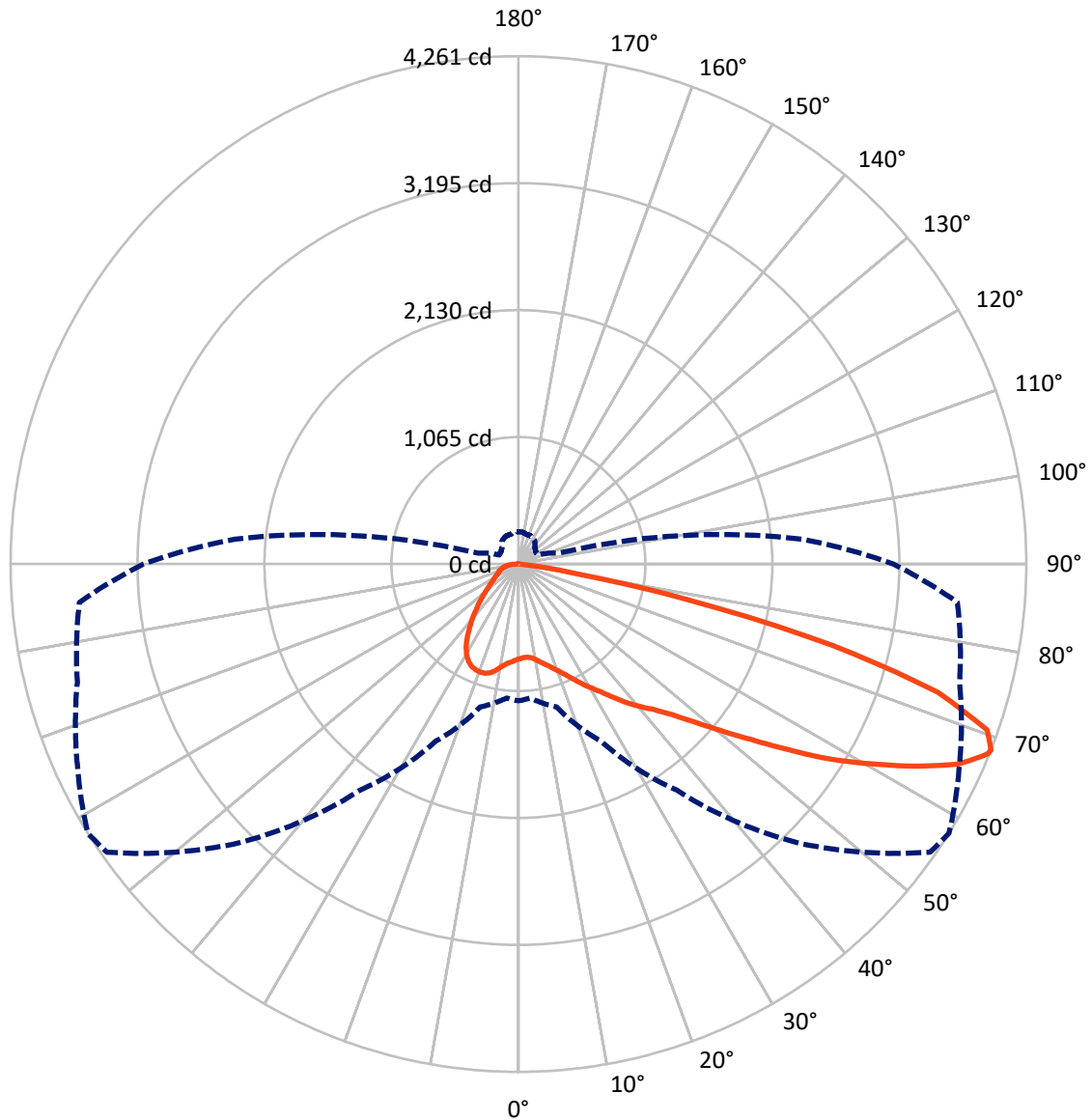
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P401804  
CATALOG NUMBER: ENV-SA1F-727-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P401804

CATALOG NUMBER: ENV-SA1F-727-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1552.4	0.0	1552.4
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	5077.6	0.0	5077.6
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	6630.0	0.0	6630.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.4	1.2
10°-20°	256.5	3.9
20°-30°	461.2	7.0
30°-40°	677.6	10.2
40°-50°	993.8	15.0
50°-60°	1485.5	22.4
60°-70°	1737.0	26.2
70°-80°	856.4	12.9
80°-90°	83.6	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°	6630.0	100.0
0°-180°	6630.0	100.0



REPORT NUMBER: P401804

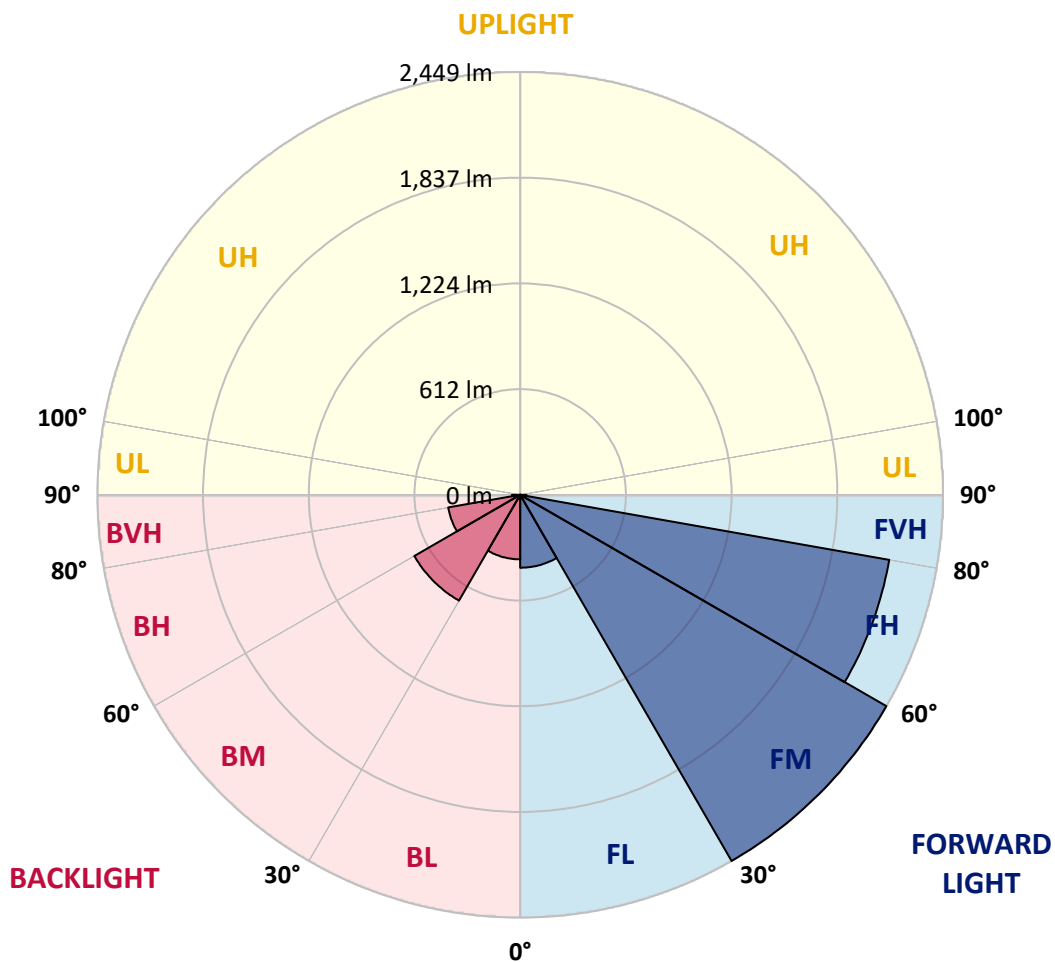
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.4	6.4			
FM (30°-60°)	2448.9	36.9			
FH (60°-80°)	2170.4	32.7			G2/5000
FVH (80°-90°)	36.0	0.5			G1/100
BL (0°-30°)	373.8	5.6	B1/500		
BM (30°-60°)	708.0	10.7	B1/1000		
BH (60°-80°)	423.0	6.4	B1/500		G1/500
BVH (80°-90°)	47.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





REPORT NUMBER: P401804

CATALOG NUMBER: ENV-SA1F-727-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	796.2	796.2	796.2	796.2	796.2	796.2	796.2	796.2	796.2	796.2	796.2
2.5°	776.7	776.7	779.5	780.4	782.3	784.1	786.0	786.9	789.7	793.4	795.2
5°	770.3	771.2	773.0	774.0	776.7	780.4	783.2	785.1	789.7	797.1	801.7
7.5°	785.1	787.8	788.8	789.7	790.6	793.4	793.4	794.3	799.0	806.4	812.8
10°	809.1	811.0	813.8	816.5	819.3	821.2	815.6	816.5	818.4	825.8	835.1
12.5°	839.7	839.7	840.6	844.3	847.1	852.6	847.1	847.1	847.1	853.6	864.7
15°	873.9	872.1	872.1	875.8	876.7	880.4	877.6	877.6	881.3	887.8	898.9
17.5°	912.8	915.6	912.8	911.0	908.2	910.0	911.9	913.7	921.2	931.3	937.8
20°	969.3	973.9	972.1	964.7	952.6	947.1	953.6	957.3	972.1	984.1	985.0
22.5°	1059.1	1056.3	1053.5	1040.6	1016.5	1001.7	1002.6	1008.2	1031.3	1049.8	1040.6
25°	1142.4	1145.2	1145.2	1126.7	1095.2	1064.7	1067.4	1070.2	1093.3	1110.0	1085.0
27.5°	1243.3	1241.5	1240.5	1215.6	1177.6	1148.0	1132.2	1139.6	1156.3	1162.8	1114.6
30°	1347.9	1355.3	1347.9	1312.8	1276.7	1238.7	1207.2	1205.4	1213.7	1212.8	1149.8
32.5°	1473.8	1467.4	1464.6	1423.9	1378.5	1328.5	1288.7	1282.2	1277.6	1271.1	1191.5
35°	1571.1	1579.4	1579.4	1544.2	1490.5	1441.4	1379.4	1373.9	1362.8	1341.5	1246.1
37.5°	1685.9	1684.0	1690.5	1649.7	1596.0	1548.8	1491.4	1475.7	1450.7	1419.2	1310.9
40°	1797.9	1802.5	1817.3	1768.2	1719.2	1682.1	1600.7	1572.0	1534.0	1505.3	1405.3
42.5°	1950.6	1957.1	1962.7	1921.9	1863.6	1830.3	1704.4	1668.3	1647.0	1641.4	1530.3
45°	2135.8	2146.9	2151.5	2114.5	2081.2	2001.5	1834.9	1801.6	1778.4	1802.5	1700.7
47.5°	2313.5	2308.0	2329.3	2328.3	2332.0	2236.7	2022.8	1972.8	1950.6	2011.7	1896.0
50°	2413.5	2421.8	2468.1	2515.4	2581.1	2512.6	2240.4	2190.4	2164.5	2240.4	2125.6
52.5°	2465.4	2476.5	2538.5	2670.9	2810.7	2778.3	2502.4	2446.8	2424.6	2498.7	2371.9
55°	2470.0	2476.5	2559.8	2765.3	2985.6	2995.8	2801.4	2748.6	2718.1	2766.2	2640.3
57.5°	2393.1	2373.7	2517.2	2779.2	3097.7	3222.6	3130.1	3092.1	3006.0	3057.9	2973.6
60°	2256.1	2275.6	2416.3	2721.8	3144.9	3399.5	3459.7	3402.3	3302.3	3323.6	3332.8
62.5°	2048.8	2073.8	2220.0	2588.5	3106.9	3549.5	3764.2	3735.5	3601.3	3590.2	3606.8
65°	1753.4	1738.6	1901.6	2296.9	2927.3	3599.4	4063.3	4051.2	3891.1	3760.5	3767.0
67.5°	1264.6	1250.7	1364.6	1772.9	2441.3	3413.4	4222.5	4249.3	4066.0	3835.5	3735.5
68°	1148.0	1128.5	1242.4	1638.6	2316.3	3306.0	4214.2	4260.5	4079.0	3830.9	3696.7
70°	661.0	629.5	739.7	1069.3	1705.3	2782.9	4043.8	4171.6	4048.4	3741.1	3442.1
72.5°	207.4	207.4	286.1	432.3	836.9	1760.8	3459.7	3677.2	3703.1	3400.4	2860.7
75°	129.6	129.6	149.1	204.6	333.3	747.1	2386.7	2718.1	2942.1	2862.5	2085.8
77.5°	87.9	86.1	99.1	126.8	186.1	239.8	1198.0	1472.0	1799.7	1954.3	1220.2
80°	48.1	49.1	61.1	75.9	105.5	111.1	351.8	497.1	792.5	928.6	462.9
82.5°	27.8	26.8	29.6	33.3	46.3	48.1	100.9	124.1	207.4	192.6	124.1
85°	0.0	0.9	0.9	0.9	1.9	4.6	13.0	19.4	31.5	43.5	30.6
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	1.9	1.9	1.9	1.9	2.8
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: P401804

CATALOG NUMBER: ENV-SA1F-727-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	796.2	796.2	796.2	796.2	796.2	796.2	796.2	796.2	796.2	796.2	796.2
2.5°	797.1	799.9	804.5	808.2	810.1	808.2	814.7	813.8	815.6	815.6	817.5
5°	805.4	809.1	817.5	822.1	826.7	828.6	836.0	837.8	841.5	843.4	842.5
7.5°	817.5	822.1	832.3	840.6	847.1	851.7	863.8	869.3	874.9	876.7	878.6
10°	839.7	846.2	857.3	867.5	876.7	883.2	893.4	900.8	906.3	908.2	910.0
12.5°	869.3	876.7	890.6	904.5	914.7	918.4	917.5	915.6	915.6	914.7	915.6
15°	903.6	911.0	928.6	941.5	942.4	930.4	913.7	905.4	903.6	903.6	904.5
17.5°	943.4	952.6	963.7	971.1	953.6	923.9	904.5	896.2	894.3	893.4	891.5
20°	988.7	994.3	998.0	988.7	949.9	915.6	893.4	881.3	872.1	871.2	867.5
22.5°	1036.9	1035.0	1030.4	997.1	939.7	896.2	865.6	843.4	831.4	830.4	826.7
25°	1072.1	1064.7	1050.8	998.9	921.2	864.7	821.2	786.0	770.3	762.8	764.7
27.5°	1095.2	1079.5	1055.4	989.7	888.8	816.5	755.4	709.1	686.0	682.3	685.1
30°	1123.0	1098.0	1059.1	966.5	842.5	749.0	669.3	623.1	610.1	603.6	605.5
32.5°	1156.3	1123.9	1071.1	931.3	784.1	670.3	584.2	551.8	537.0	524.9	528.6
35°	1199.8	1159.1	1090.6	881.3	710.1	586.9	523.1	493.4	466.6	453.6	454.6
37.5°	1250.7	1204.4	1107.2	823.0	629.5	524.0	470.3	435.1	401.8	376.8	372.2
40°	1332.2	1294.2	1121.1	758.2	552.7	472.1	418.5	378.6	347.2	322.2	319.4
42.5°	1468.3	1402.6	1122.0	680.5	487.0	427.7	375.9	332.4	297.2	275.9	275.0
45°	1628.5	1526.6	1102.6	597.1	429.6	383.3	337.9	288.8	268.5	254.6	252.7
47.5°	1818.2	1669.2	1060.0	519.4	380.5	339.8	299.0	269.4	254.6	244.4	244.4
50°	2034.9	1836.8	1017.4	452.7	333.3	304.6	276.8	261.1	250.0	240.7	239.8
52.5°	2279.3	2034.9	1003.5	385.1	294.4	272.2	269.4	254.6	245.3	238.9	237.0
55°	2570.9	2257.1	1016.5	332.4	263.8	259.2	264.8	252.7	246.3	236.1	233.3
57.5°	2907.9	2473.7	1002.6	287.9	242.6	247.2	259.2	252.7	247.2	234.2	230.5
60°	3225.4	2667.2	908.2	250.9	222.2	232.4	251.8	244.4	236.1	233.3	231.4
62.5°	3395.8	2730.1	724.0	222.2	206.4	217.6	239.8	230.5	225.0	231.4	232.4
65°	3397.6	2658.8	532.3	200.9	193.5	204.6	227.7	225.0	228.7	243.5	246.3
67.5°	3208.8	2442.2	375.9	181.5	180.5	194.4	233.3	251.8	254.6	269.4	269.4
68°	3144.0	2388.5	349.0	178.7	177.8	194.4	237.9	256.4	258.3	272.2	271.3
70°	2788.5	2019.1	252.7	167.6	173.1	208.3	262.9	269.4	258.3	274.0	273.1
72.5°	2179.3	1493.3	188.9	155.5	164.8	205.5	264.8	258.3	241.6	245.3	240.7
75°	1472.9	951.7	155.5	142.6	146.3	174.0	240.7	243.5	224.0	220.3	214.8
77.5°	771.2	446.2	125.9	126.8	130.5	150.9	214.8	221.3	203.7	192.6	190.7
80°	284.2	176.8	102.8	112.0	113.9	132.4	184.2	194.4	177.8	169.4	167.6
82.5°	103.7	87.9	85.2	98.1	96.3	112.9	161.1	168.5	150.9	142.6	137.9
85°	28.7	32.4	53.7	76.8	75.0	87.9	129.6	136.1	121.3	100.0	97.2
87.5°	1.9	6.5	21.3	45.4	47.2	54.6	93.5	102.8	89.8	74.1	73.1
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)