

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: P401520

Luminaire Tested: **ENV-SA1D-740-U-T4W**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1D-740-U-T4W  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5646 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.1  
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

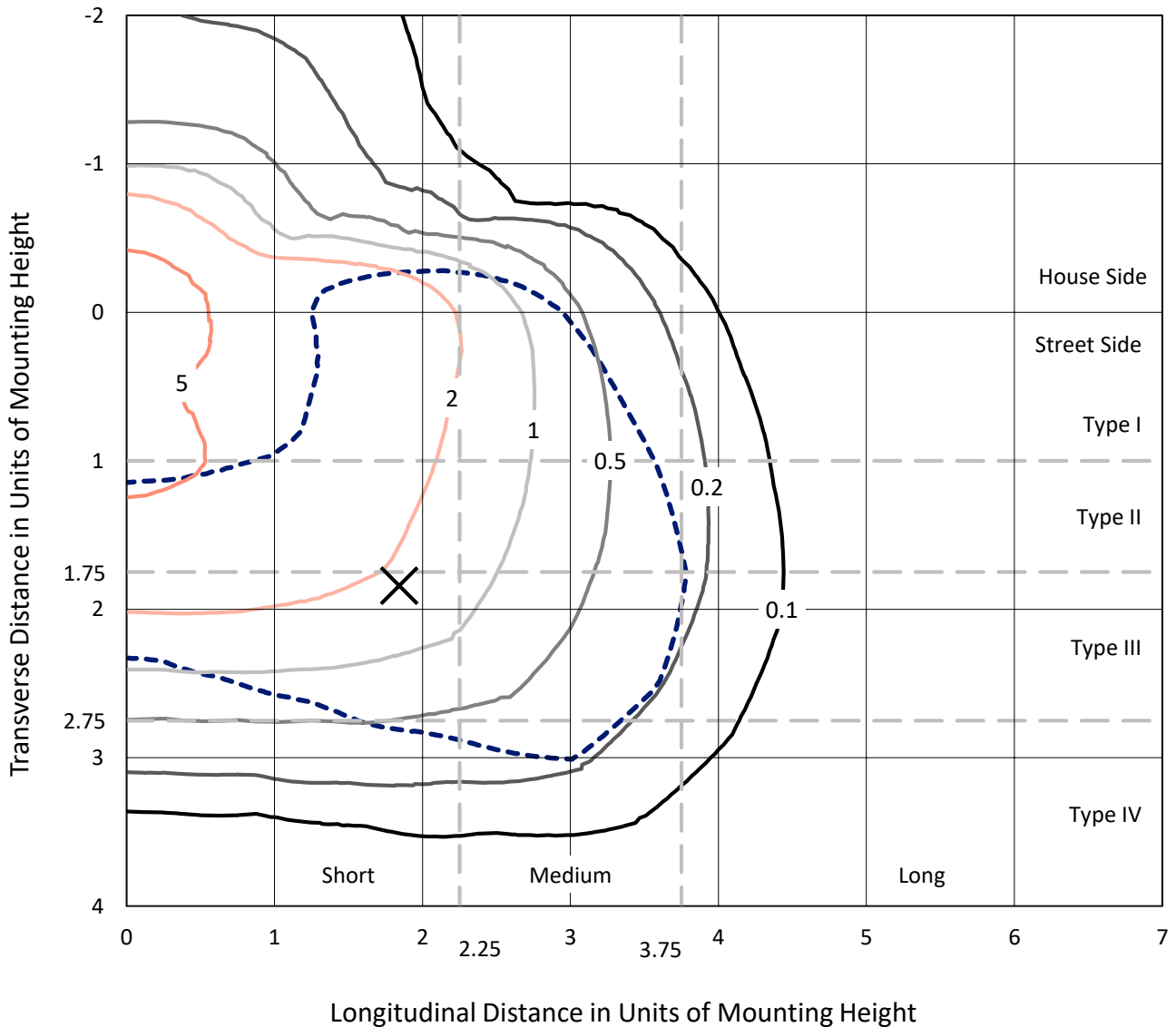


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

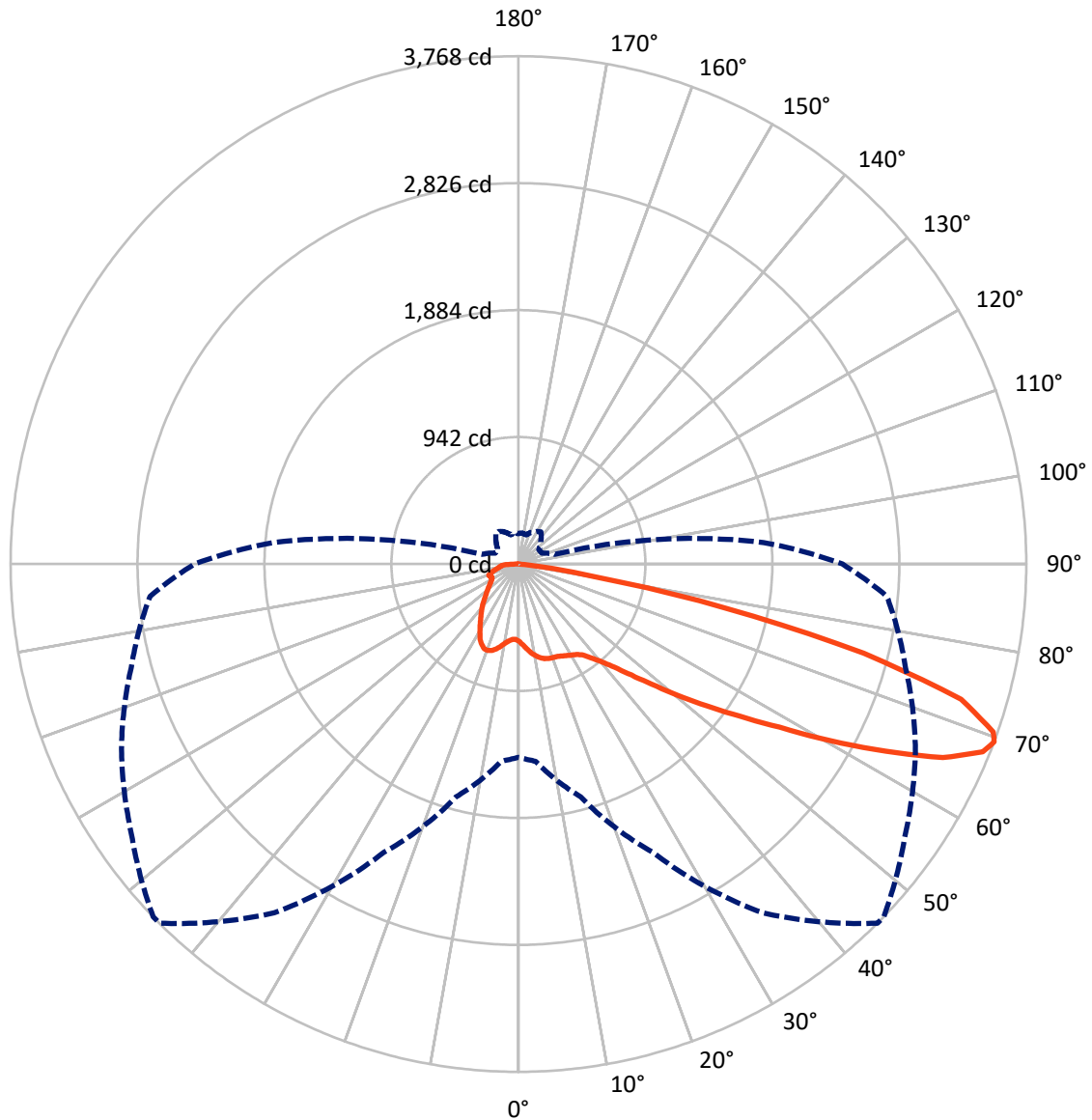


Based on 10 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1329.3	0.0	1329.3
	% Fixture	23.5	0.0	23.5
<b>Street Side</b>	Lumens	4316.7	0.0	4316.7
	% Fixture	76.5	0.0	76.5
<b>Total</b>	Lumens	5646.0	0.0	5646.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	1.0
10°-20°	193.5	3.4
20°-30°	327.0	5.8
30°-40°	473.1	8.4
40°-50°	714.3	12.7
50°-60°	1204.5	21.3
60°-70°	1657.1	29.3
70°-80°	918.2	16.3
80°-90°	100.0	1.8
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°	5646.0	100.0
0°-180°	5646.0	100.0



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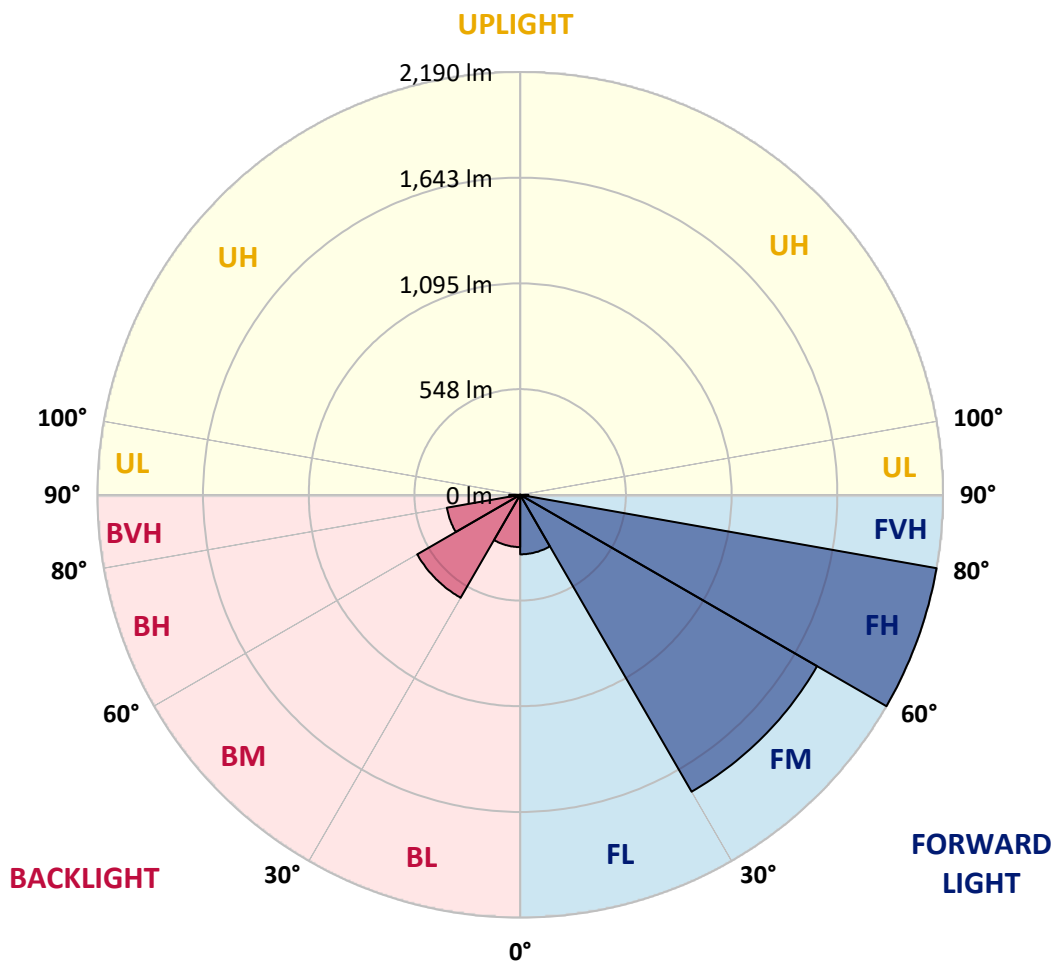
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	308.2	5.5			
FM	(30°-60°)	1775.7	31.5			
FH	(60°-80°)	2190.0	38.8			G2/5000
FVH	(80°-90°)	42.8	0.8			G1/100
BL	(0°-30°)	270.7	4.8	B1/500		
BM	(30°-60°)	616.2	10.9	B1/1000		
BH	(60°-80°)	385.3	6.8	B1/500		G1/500
BVH	(80°-90°)	57.2	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	573.1	573.1	573.1	573.1	573.1	573.1	573.1	573.1	573.1	573.1	573.1
2.5°	609.2	608.4	609.2	606.0	602.8	598.0	596.4	590.7	586.7	581.1	576.3
5°	654.1	656.6	655.8	651.7	638.9	629.3	629.3	617.2	604.4	592.3	581.1
7.5°	703.1	703.1	698.3	690.3	677.4	663.0	661.4	645.3	626.9	610.0	592.3
10°	738.4	740.0	732.8	721.6	705.5	690.3	688.7	670.2	652.5	630.9	609.2
12.5°	763.3	763.3	756.9	746.5	727.2	712.7	711.1	694.3	675.8	653.3	628.5
15°	776.1	774.5	768.9	757.7	740.8	728.8	726.4	711.9	696.7	674.2	647.7
17.5°	773.7	773.7	768.9	757.7	745.6	736.0	734.4	724.0	712.7	691.1	664.6
20°	763.3	762.5	760.9	752.1	744.0	740.0	738.4	733.6	726.4	707.9	683.0
22.5°	753.7	752.9	750.5	744.8	741.6	744.0	744.0	743.2	742.4	728.0	703.9
25°	759.3	758.5	753.7	745.6	744.8	756.1	756.9	759.3	760.9	748.9	724.0
27.5°	798.6	796.2	782.6	761.7	754.5	768.9	770.5	777.8	776.1	763.3	741.6
30°	875.7	876.5	846.0	801.0	777.0	783.4	784.2	792.2	789.8	779.4	761.7
32.5°	992.1	992.1	942.3	874.1	813.1	800.2	797.8	805.0	814.7	801.0	783.4
35°	1139.7	1135.7	1075.5	970.4	874.9	829.1	827.5	824.3	841.2	828.3	802.6
37.5°	1288.2	1273.8	1215.2	1099.6	961.6	885.3	878.9	869.3	878.9	851.6	829.1
40°	1407.8	1405.4	1357.3	1240.1	1064.3	953.5	948.7	906.2	912.6	890.9	882.1
42.5°	1539.5	1541.1	1509.0	1391.0	1187.1	1045.8	1033.0	967.2	985.6	977.6	973.6
45°	1683.9	1682.3	1658.2	1534.6	1337.2	1174.3	1158.2	1077.1	1114.9	1110.0	1132.5
47.5°	1794.7	1803.5	1789.9	1702.4	1515.4	1330.0	1317.9	1219.2	1276.2	1314.7	1357.3
50°	1945.6	1944.8	1907.9	1871.7	1722.5	1529.0	1517.0	1407.0	1488.9	1545.1	1622.9
52.5°	2132.6	2126.2	2049.9	2037.1	1974.5	1746.5	1736.1	1621.3	1738.5	1787.5	1945.6
55°	2249.8	2249.0	2209.7	2232.1	2233.7	1988.9	1976.1	1874.2	2006.6	2062.8	2302.0
57.5°	2347.7	2348.5	2381.4	2460.1	2513.1	2283.5	2278.7	2154.3	2288.3	2367.0	2649.5
60°	2423.2	2439.2	2531.5	2711.3	2799.6	2659.1	2638.3	2506.6	2596.5	2627.8	2915.2
62.5°	2392.7	2413.5	2594.9	2859.8	3086.9	3057.2	3050.0	2859.8	2859.0	2842.9	3113.4
65°	2151.9	2196.8	2482.6	2854.2	3276.4	3461.8	3451.3	3192.9	3103.0	3022.7	3172.8
67.5°	1761.0	1770.6	2114.9	2635.9	3274.8	3716.2	3705.0	3435.3	3254.7	3058.0	2998.6
69°	1433.5	1468.8	1787.5	2359.8	3159.2	3767.6	3767.6	3502.7	3249.1	2973.8	2743.4
70°	1240.1	1241.7	1549.1	2139.8	3001.9	3737.1	3744.3	3502.7	3203.3	2863.8	2517.1
72.5°	581.1	617.2	811.5	1396.6	2424.8	3435.3	3452.9	3271.5	2937.6	2467.3	1888.6
75°	174.2	180.6	270.5	662.2	1389.4	2646.3	2685.6	2721.7	2392.7	1816.4	1163.0
77.5°	103.5	102.7	130.8	224.7	642.9	1569.2	1586.8	1740.9	1552.3	1009.7	528.1
80°	50.6	52.2	69.8	109.2	240.8	569.9	626.9	813.9	687.9	394.9	193.4
82.5°	16.9	18.5	28.9	44.1	101.9	183.8	203.1	255.2	219.9	143.7	82.7
85°	0.0	0.0	0.8	1.6	5.6	13.6	13.6	30.5	45.8	50.6	27.3
87.5°	0.0	0.0	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	2.4
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°	573.1	573.1	573.1	573.1	573.1	573.1	573.1	573.1	573.1	573.1	573.1
2.5°	573.9	572.3	569.1	565.9	564.3	560.2	561.0	559.4	558.6	558.6	559.4
5°	575.5	573.1	568.3	565.1	561.8	560.2	564.3	565.9	567.5	567.5	568.3
7.5°	585.1	580.3	574.7	570.7	571.5	573.9	580.3	585.1	587.5	589.1	590.7
10°	601.2	595.6	587.5	586.7	588.3	594.8	603.6	610.8	617.2	621.2	621.2
12.5°	618.0	610.8	604.4	606.0	613.2	622.8	631.7	639.7	645.3	649.3	650.1
15°	636.5	629.3	622.8	626.9	638.9	650.1	658.2	661.4	663.8	667.8	668.6
17.5°	653.3	646.9	641.3	651.7	662.2	671.0	673.4	671.8	668.6	671.0	672.6
20°	671.0	665.4	662.2	673.4	680.6	681.4	675.0	667.8	659.8	659.8	660.6
22.5°	692.7	685.5	683.8	689.5	687.1	677.4	661.4	650.1	638.9	637.3	639.7
25°	713.5	706.3	705.5	701.5	680.6	655.8	634.1	621.2	612.4	613.2	618.0
27.5°	734.4	729.6	730.4	708.7	662.2	624.5	595.6	585.1	587.5	589.1	594.0
30°	755.3	755.3	758.5	708.7	636.5	580.3	553.0	552.2	558.6	563.5	569.1
32.5°	779.4	786.6	781.0	699.9	602.0	535.4	513.7	515.3	522.5	530.5	535.4
35°	802.6	819.5	803.4	679.8	554.6	494.4	476.8	474.4	480.0	487.2	489.6
37.5°	839.6	866.8	822.7	648.5	505.7	458.3	440.6	434.2	428.6	434.2	433.4
40°	903.8	936.7	837.1	596.4	458.3	424.6	406.1	394.1	380.4	368.4	368.4
42.5°	1006.5	1028.2	845.2	533.0	410.9	390.9	372.4	354.8	333.9	312.2	312.2
45°	1174.3	1179.1	848.4	465.5	367.6	357.2	337.9	321.1	293.8	272.1	267.3
47.5°	1398.2	1377.3	856.4	400.5	329.9	327.5	311.4	292.2	262.5	242.4	240.0
50°	1699.2	1609.3	891.7	348.3	299.4	301.8	289.8	267.3	239.2	224.7	221.5
52.5°	2037.9	1902.2	919.0	306.6	272.9	280.1	271.3	249.6	225.5	213.5	211.1
55°	2407.9	2184.0	912.6	278.5	252.8	260.9	257.6	239.2	217.5	207.1	204.7
57.5°	2709.7	2382.2	856.4	253.6	232.8	244.0	247.2	232.8	212.7	203.1	200.7
60°	2936.0	2490.6	740.8	232.8	216.7	230.4	239.2	228.8	211.9	206.3	203.9
62.5°	3038.8	2480.9	590.7	216.7	204.7	220.7	240.0	235.2	223.9	227.9	228.8
65°	2981.0	2359.8	443.1	204.7	197.4	222.3	253.6	253.6	236.8	244.0	244.8
67.5°	2684.8	2042.7	322.7	195.8	190.2	230.4	279.3	263.3	231.2	236.8	234.4
69°	2403.1	1827.6	276.9	191.0	184.6	234.4	290.6	264.9	224.7	231.2	224.7
70°	2196.0	1633.4	248.8	187.0	182.2	234.4	293.8	263.3	221.5	226.3	219.1
72.5°	1562.7	1134.1	204.7	179.0	173.4	216.7	288.1	254.4	212.7	207.1	193.4
75°	908.6	626.9	174.2	170.2	153.3	190.2	273.7	244.8	203.9	193.4	183.8
77.5°	381.3	280.1	148.5	154.9	135.6	169.4	256.0	235.2	193.4	179.0	174.2
80°	154.9	139.7	123.6	134.0	118.0	149.3	236.0	219.1	178.2	163.7	156.5
82.5°	81.1	77.1	94.7	108.4	97.9	137.3	222.3	207.9	165.3	150.9	142.1
85°	24.1	32.1	53.8	73.8	74.6	123.6	215.9	192.6	143.7	124.4	122.8
87.5°	1.6	6.4	18.5	38.5	49.0	94.7	175.0	158.1	116.4	97.9	98.7
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)