

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: P401269

Luminaire Tested: **ENV-SA1C-730-U-SL2-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1C-730-U-SL2-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3321 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 33.3  
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

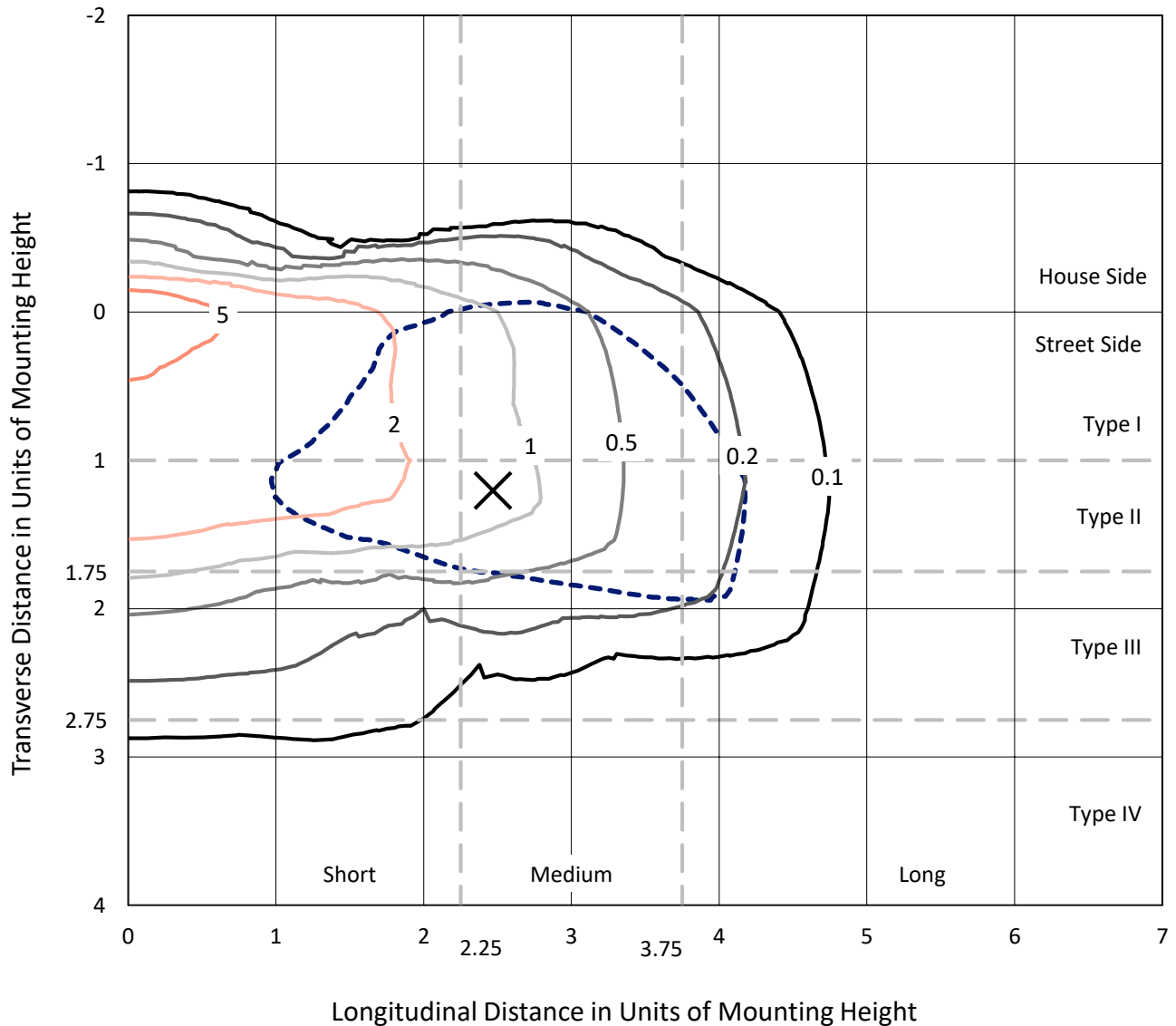


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### Iso-Footcandle Lines of Horizontal Illumination

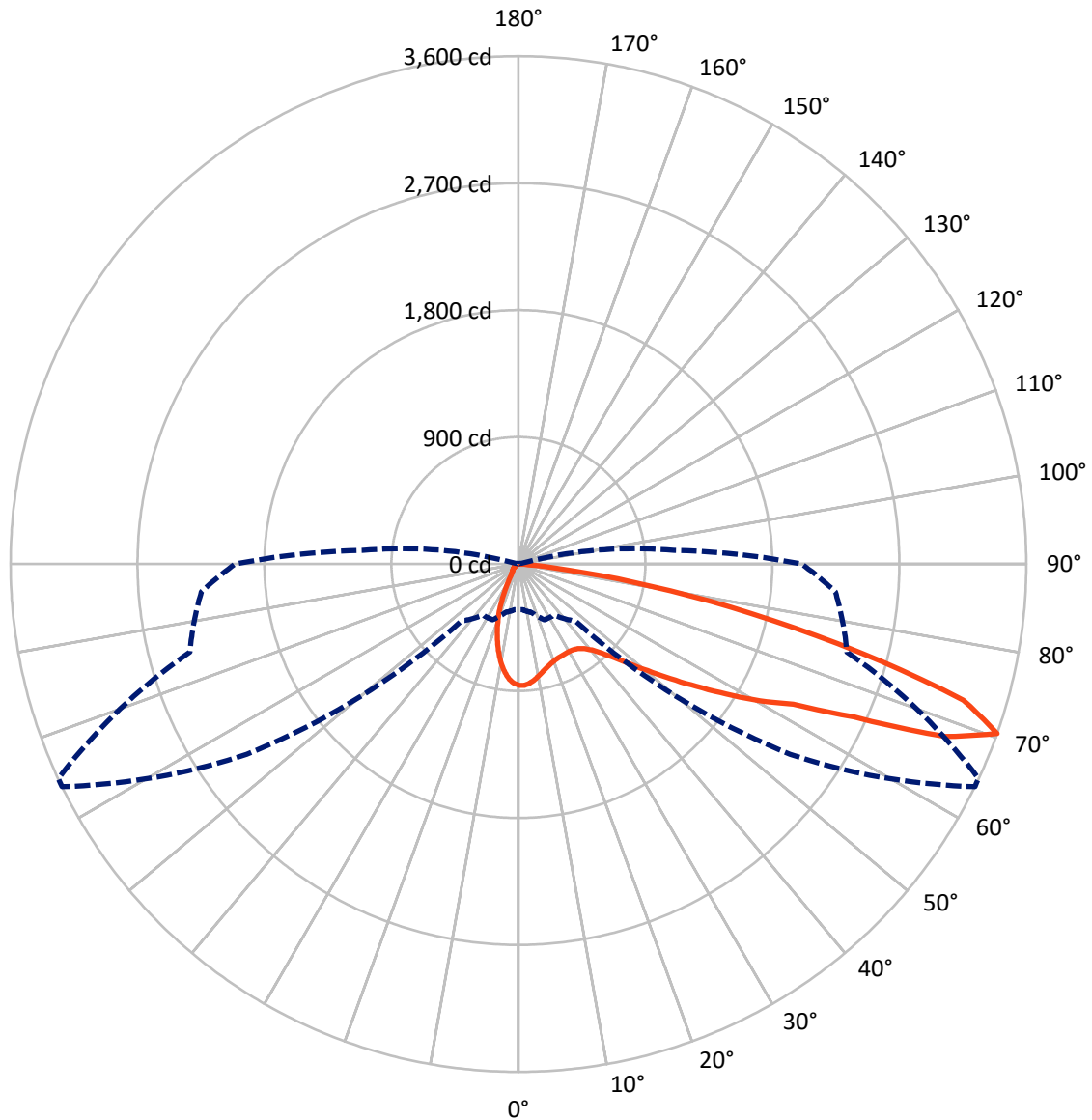
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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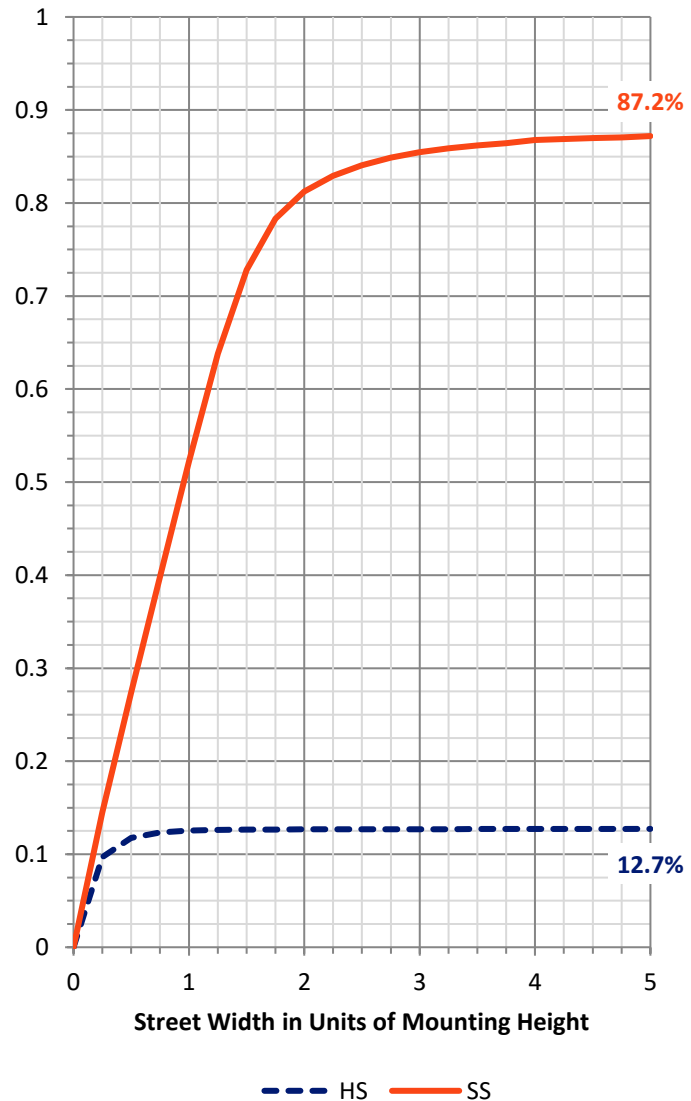
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	426.6	0.0	426.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2894.4	0.0	2894.4
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3321.0	0.0	3321.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.4	2.2
10°-20°	160.8	4.8
20°-30°	221.4	6.7
30°-40°	304.9	9.2
40°-50°	454.4	13.7
50°-60°	717.8	21.6
60°-70°	813.4	24.5
70°-80°	534.1	16.1
80°-90°	41.9	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°	3321.0	100.0
0°-180°	3321.0	100.0



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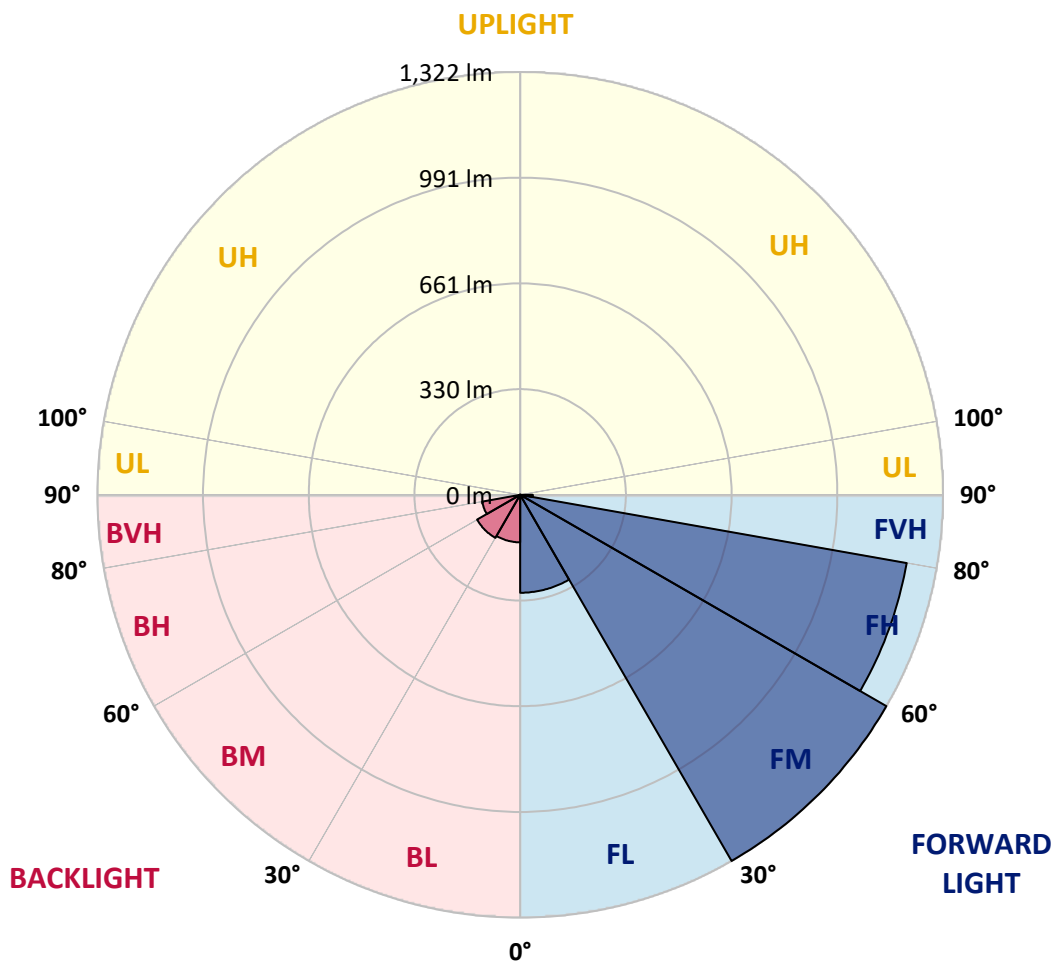
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.1	9.2			
FM	(30°-60°)	1321.7	39.8			
FH	(60°-80°)	1227.0	36.9			G1/1800
FVH	(80°-90°)	39.5	1.2			G1/100
BL	(0°-30°)	148.5	4.5	B1/500		
BM	(30°-60°)	155.4	4.7	B0/220		
BH	(60°-80°)	120.5	3.6	B1/500		G1/500
BVH	(80°-90°)	2.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7
2.5°	835.7	835.7	839.8	843.9	846.2	852.7	857.3	860.8	860.8	863.2	859.1
5°	780.3	780.3	783.8	793.7	804.2	817.6	832.8	848.0	850.9	862.0	861.4
7.5°	728.9	733.5	739.4	749.3	760.4	780.3	801.3	827.6	830.5	857.3	863.2
10°	693.2	696.2	699.7	710.8	727.1	749.9	772.7	803.6	808.9	849.2	863.2
12.5°	664.6	665.2	670.5	682.7	698.5	720.7	746.4	780.3	786.7	834.6	860.8
15°	644.2	643.6	649.4	661.1	676.3	699.1	724.2	759.8	766.8	822.3	860.3
17.5°	631.9	632.5	637.2	645.9	660.5	682.1	707.8	742.9	749.9	812.4	863.2
20°	631.9	631.9	634.8	638.9	650.0	669.3	694.4	730.6	737.6	806.0	867.3
22.5°	644.2	643.0	645.3	641.8	647.1	660.5	686.2	722.4	730.0	803.0	873.7
25°	666.4	664.0	665.8	658.2	652.4	658.2	681.0	718.9	727.1	803.6	879.5
27.5°	697.3	697.3	693.8	683.3	668.7	662.3	680.4	716.6	724.8	803.6	883.6
30°	740.5	738.8	733.5	723.0	700.2	678.6	686.2	716.6	724.8	804.2	884.8
32.5°	783.8	784.9	787.8	777.3	746.4	706.7	700.2	721.9	728.9	803.6	883.0
35°	827.6	828.1	841.0	842.2	802.4	751.6	724.2	735.9	740.5	809.5	884.2
37.5°	866.1	869.0	894.1	906.4	873.7	809.5	762.1	762.1	764.5	825.2	891.2
40°	909.3	916.9	947.3	974.7	961.9	883.6	817.6	800.7	801.9	853.8	907.0
42.5°	959.5	968.9	1008.6	1048.3	1047.7	974.7	887.7	862.0	863.2	903.5	939.1
45°	1023.2	1029.6	1079.9	1129.5	1140.0	1075.2	975.9	942.0	943.2	978.8	1001.6
47.5°	1100.9	1108.5	1156.9	1216.5	1243.4	1196.1	1090.4	1053.6	1050.1	1075.2	1091.5
50°	1202.5	1217.1	1245.7	1303.0	1367.8	1336.2	1224.7	1187.9	1183.2	1203.1	1208.3
52.5°	1299.5	1312.9	1324.6	1377.1	1502.7	1510.3	1389.4	1349.1	1344.4	1349.1	1355.5
55°	1314.1	1321.6	1330.4	1401.7	1611.9	1731.6	1576.9	1529.0	1515.5	1506.8	1528.4
57.5°	1197.8	1193.2	1222.4	1319.3	1630.0	1976.3	1830.3	1737.5	1724.6	1676.1	1654.5
60°	948.5	942.0	969.5	1102.1	1528.4	2097.8	2181.9	1968.2	1936.6	1774.3	1753.2
62.5°	666.4	658.8	694.4	772.7	1185.6	2073.9	2578.5	2186.6	2124.1	1861.3	1832.7
65°	513.4	509.9	529.1	546.6	723.6	1796.5	2796.9	2612.9	2483.8	1955.9	1919.1
67.5°	402.4	407.1	431.0	481.8	467.2	1119.6	2776.4	3263.5	3134.4	2129.9	2106.6
70°	323.5	324.7	354.5	435.7	440.9	570.0	2350.7	3599.9	3598.2	2410.8	2255.5
72.5°	195.6	200.9	249.4	376.7	445.0	436.3	1580.4	3298.6	3344.1	2476.3	2034.2
75°	94.0	99.3	129.1	252.9	442.1	424.6	855.0	2497.3	2555.7	2220.5	1649.3
77.5°	35.0	39.7	59.6	123.8	327.6	389.0	449.7	1683.7	1729.9	1625.3	1117.2
80°	11.1	12.8	23.4	56.7	166.4	321.2	289.7	949.6	980.6	711.3	375.5
82.5°	1.2	1.8	6.4	19.3	64.2	163.5	170.0	357.4	373.2	139.0	75.9
85°	0.0	0.0	0.0	0.0	1.2	1.2	42.0	68.3	56.1	13.4	22.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.8	1.8	1.8	2.3
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°	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7
2.5°	858.5	858.5	854.4	848.0	839.8	828.1	825.2	815.9	815.9	808.3	807.1
5°	859.7	856.2	842.7	822.9	795.4	765.7	747.0	726.5	709.0	697.9	699.1
7.5°	859.7	852.1	825.2	781.4	730.0	678.6	639.5	594.0	572.9	558.9	565.3
10°	857.3	844.5	797.8	731.2	650.0	578.8	514.5	462.0	425.8	410.6	397.7
12.5°	852.1	833.4	763.3	668.7	564.7	471.3	382.5	313.6	265.7	241.8	238.9
15°	847.4	821.7	723.0	600.4	468.4	346.3	247.0	181.0	140.2	130.8	132.0
17.5°	846.2	810.6	684.5	528.0	374.4	230.7	142.5	115.1	109.2	106.9	106.3
20°	846.8	800.7	642.4	456.1	265.1	143.7	108.0	101.6	99.3	98.1	97.5
22.5°	849.2	789.6	601.0	380.8	181.0	105.1	96.4	92.3	89.4	87.6	87.0
25°	849.2	777.3	554.8	300.8	118.6	92.3	86.4	81.2	77.1	74.8	74.8
27.5°	847.4	763.3	506.9	228.4	94.0	82.3	75.9	68.9	63.7	60.7	60.7
30°	842.2	746.4	460.8	159.4	82.3	73.6	65.4	56.7	50.2	47.3	46.1
32.5°	834.6	728.3	407.6	112.1	74.2	64.2	54.9	45.6	39.7	36.2	36.2
35°	826.4	710.2	350.4	85.9	67.2	56.7	46.1	36.8	31.5	29.2	28.6
37.5°	822.3	690.9	294.3	74.2	60.2	48.5	37.4	29.8	25.7	23.9	23.4
40°	825.2	676.3	239.4	66.6	53.7	40.9	31.0	25.1	21.6	19.3	19.3
42.5°	842.7	668.1	187.5	60.7	47.9	34.5	25.7	20.4	16.9	15.2	15.2
45°	878.4	674.0	142.5	55.5	40.9	28.6	21.6	16.4	12.8	11.1	11.1
47.5°	937.9	697.3	108.0	50.8	35.0	23.4	17.5	12.8	9.9	8.8	8.2
50°	1025.0	743.5	84.7	46.1	29.2	19.9	14.6	9.9	7.6	6.4	6.4
52.5°	1150.5	823.5	72.4	40.9	23.9	16.4	11.7	7.6	5.8	4.7	4.7
55°	1304.7	925.1	65.4	36.2	19.3	13.4	9.3	5.8	4.1	3.5	2.9
57.5°	1429.7	1005.7	61.3	31.5	16.4	11.7	7.0	4.7	3.5	2.3	2.3
60°	1540.1	1057.7	54.3	26.3	14.0	9.3	5.8	3.5	2.3	1.8	1.8
62.5°	1629.4	1091.5	45.0	21.0	11.7	7.6	4.7	2.9	2.3	1.8	1.8
65°	1731.0	1119.0	36.8	16.4	9.9	6.4	4.1	2.3	1.8	1.8	1.8
67.5°	1930.2	1180.3	27.4	12.8	7.6	5.3	3.5	2.3	1.8	1.2	1.2
70°	2007.9	1108.5	21.6	10.5	5.8	4.7	3.5	2.3	1.2	1.2	1.2
72.5°	1708.9	829.9	16.9	8.8	5.3	4.1	3.5	2.3	1.8	1.8	1.2
75°	1355.5	560.7	13.4	7.0	5.3	4.7	3.5	3.5	2.9	2.3	2.3
77.5°	865.5	248.2	10.5	5.8	5.3	5.8	5.3	3.5	3.5	2.9	2.9
80°	258.1	59.6	7.6	4.7	4.1	4.7	5.3	3.5	2.3	1.8	1.8
82.5°	56.1	14.0	4.7	2.3	2.9	2.3	3.5	3.5	2.3	1.8	1.8
85°	18.7	5.3	2.9	2.3	1.8	1.8	1.8	1.8	1.8	1.8	1.2
87.5°	1.2	1.8	1.8	1.2	1.2	1.2	1.2	0.6	0.6	1.2	1.2
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)