

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: P676488

Luminaire Tested: **CCW-SA-1E-840-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676488  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-840-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

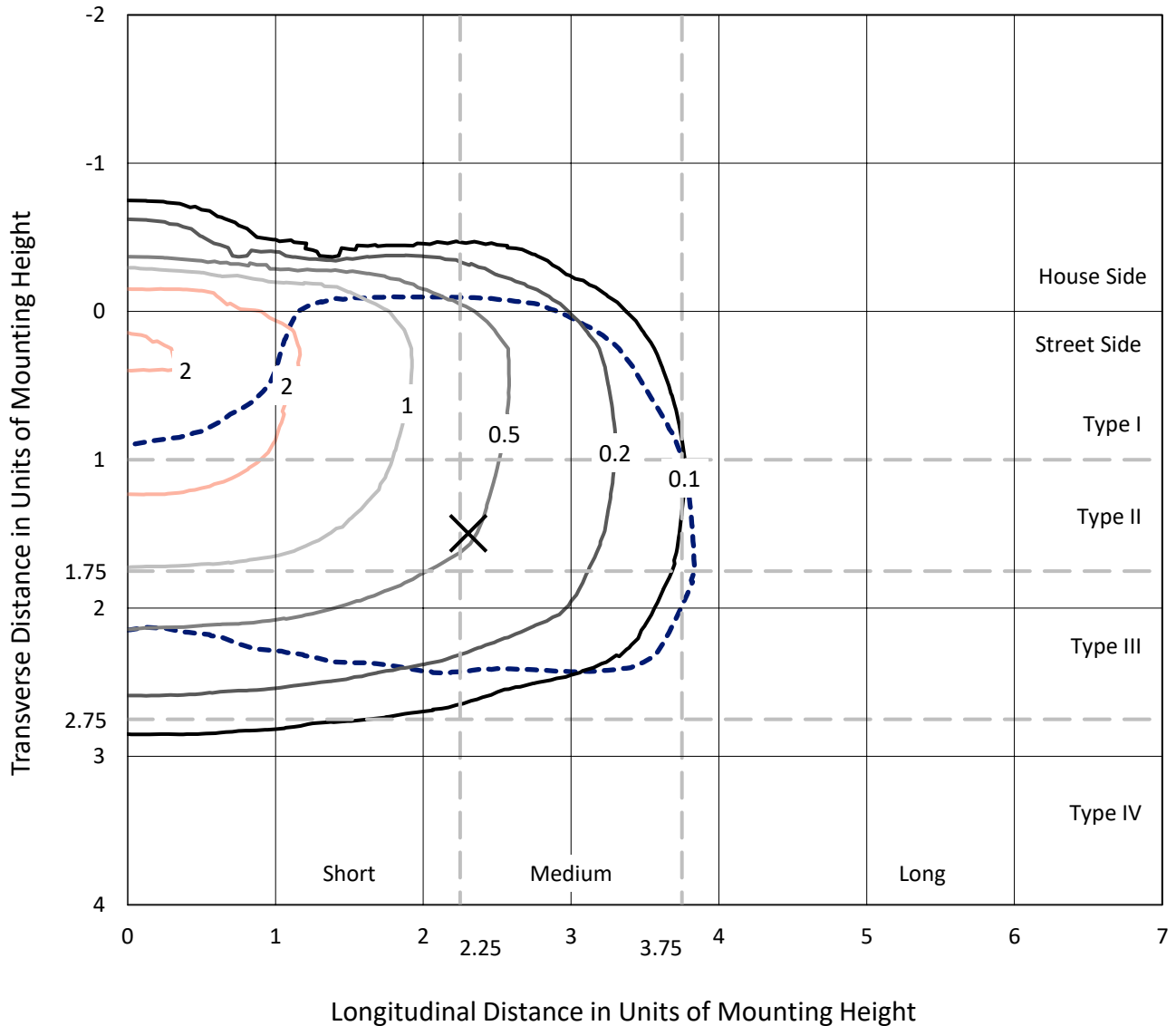
Lumens per Lamp: N/A  
Luminaire Lumens: 4199.5 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
Input Voltage (V): 120  
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

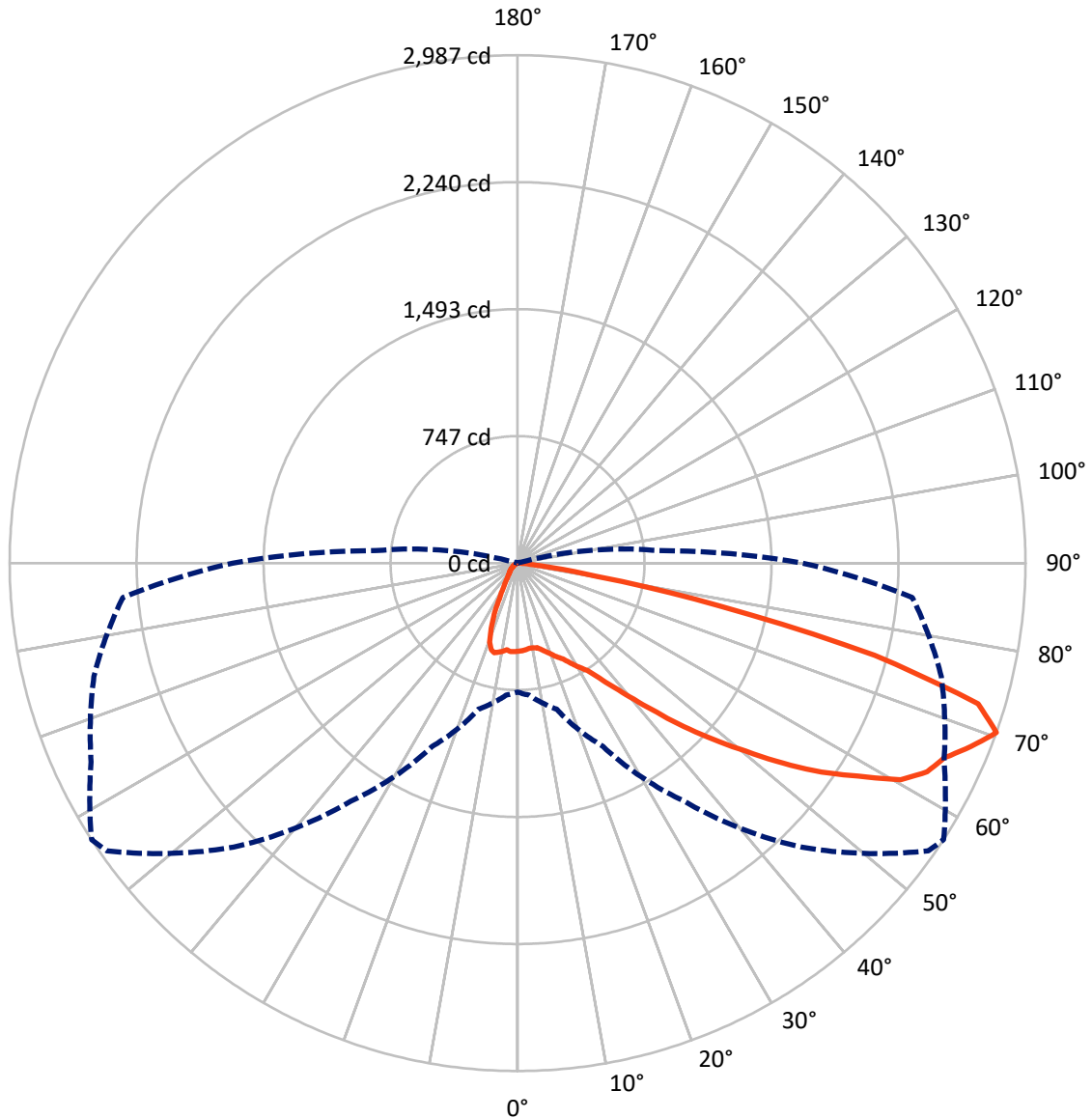
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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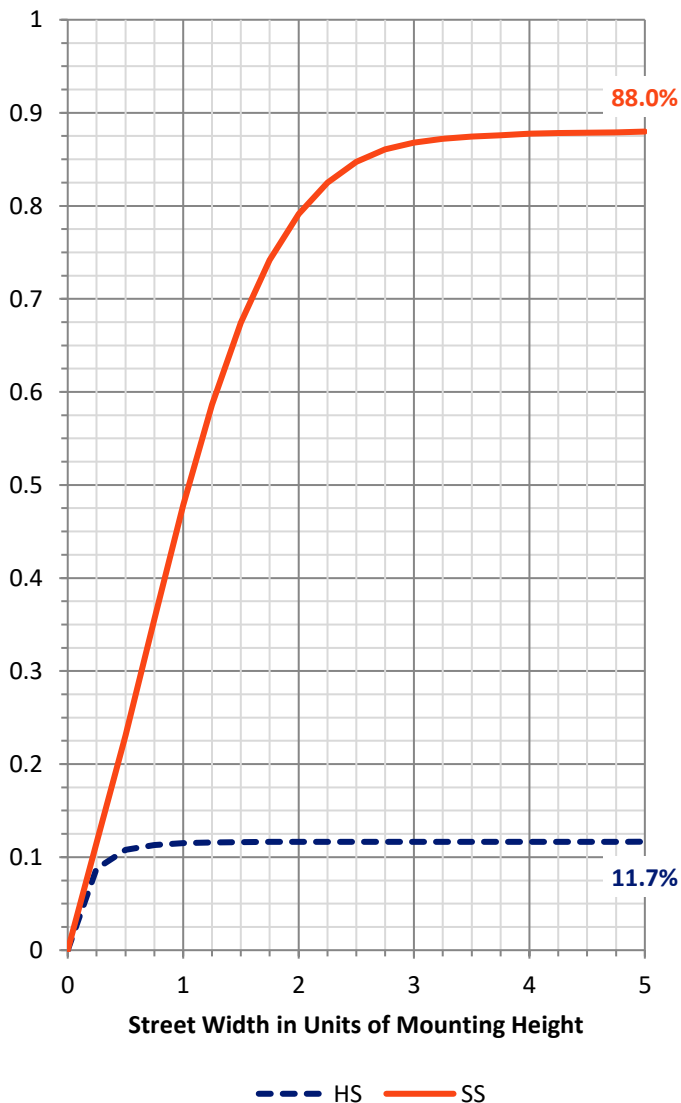
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	495.0	0.0	495.0
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3704.5	0.0	3704.5
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	4199.5	0.0	4199.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	1.2
10°-20°	135.4	3.2
20°-30°	228.0	5.4
30°-40°	390.3	9.3
40°-50°	655.3	15.6
50°-60°	1005.9	24.0
60°-70°	1161.4	27.7
70°-80°	548.6	13.1
80°-90°	26.0	0.6
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°	4199.5	100.0
0°-180°	4199.5	100.0



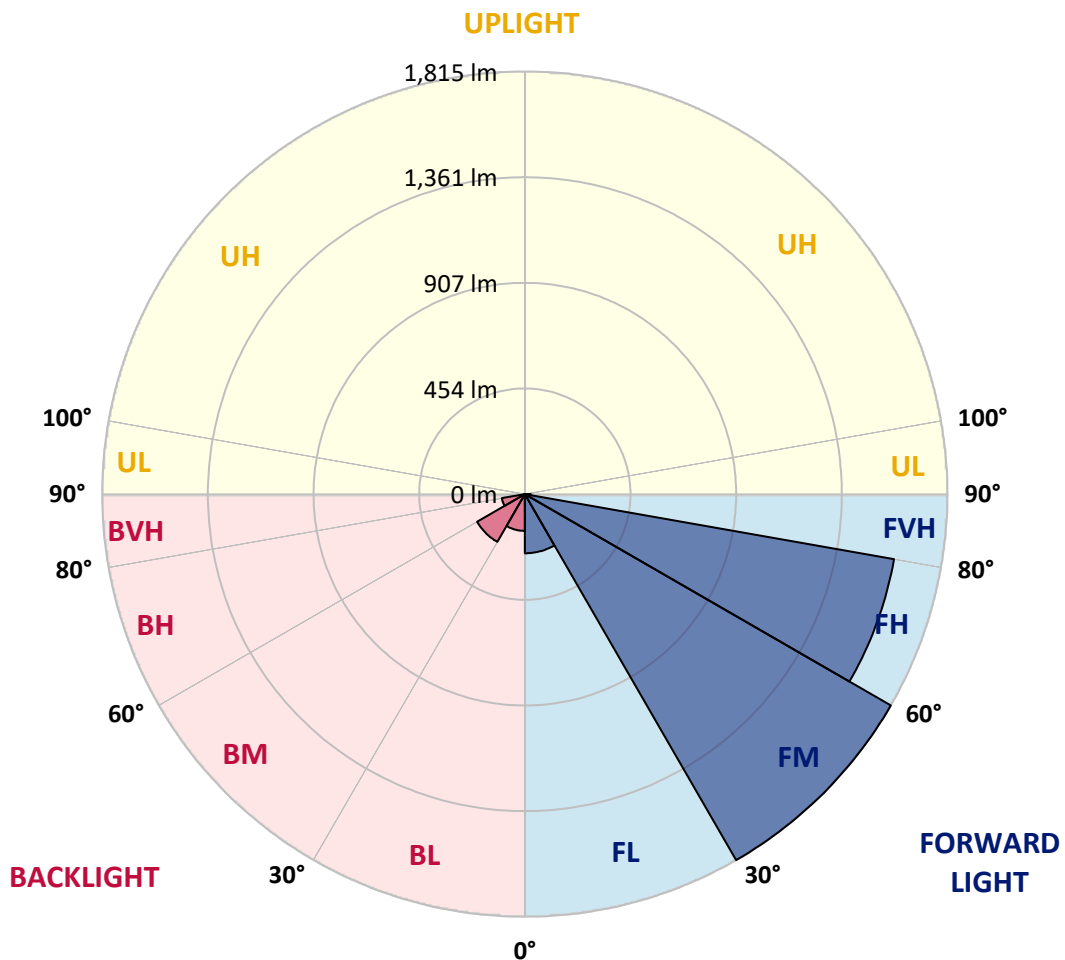
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.1	6.0			
FM (30°-60°)	1814.9	43.2			
FH (60°-80°)	1609.9	38.3			G1/1800
FVH (80°-90°)	25.6	0.6			G1/100
BL (0°-30°)	157.8	3.8	B1/500		
BM (30°-60°)	236.6	5.6	B1/1000		
BH (60°-80°)	100.1	2.4	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			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°	57°	65°	75°	85°
0°	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2
2.5°	510.6	507.4	510.6	514.9	510.6	513.9	512.8	516.0	511.7	511.7	514.9
5°	477.4	482.8	484.9	490.3	495.6	505.3	511.7	511.7	518.2	521.4	525.7
7.5°	465.6	457.0	465.6	469.9	475.2	491.3	501.0	505.3	513.9	525.7	532.1
10°	448.4	454.9	454.9	468.8	476.3	486.0	503.1	506.4	525.7	537.5	543.9
12.5°	447.4	447.4	452.7	462.4	477.4	495.6	517.1	510.6	531.0	552.5	563.2
15°	450.6	458.1	458.1	471.0	482.8	508.5	526.7	527.8	556.8	578.2	587.9
17.5°	464.5	461.3	465.6	473.1	491.3	516.0	546.1	549.3	582.5	611.5	625.4
20°	493.5	498.8	492.4	488.1	495.6	527.8	566.4	572.9	610.4	638.3	652.3
22.5°	601.8	597.5	571.8	541.8	528.9	543.9	585.7	600.8	644.7	678.0	689.8
25°	724.1	716.6	686.6	641.5	582.5	576.1	624.4	624.4	687.7	724.1	720.9
27.5°	840.0	837.9	802.4	755.2	671.6	625.4	655.5	667.3	735.9	766.0	752.0
30°	958.0	960.1	928.0	871.1	783.1	704.8	699.5	709.1	772.4	819.6	790.6
32.5°	1095.3	1076.0	1053.5	975.2	894.7	806.7	756.3	752.0	813.2	856.1	817.5
35°	1217.6	1205.8	1181.1	1110.3	1018.1	912.9	842.1	831.4	864.7	921.5	879.7
37.5°	1324.9	1313.1	1280.9	1233.7	1161.8	1044.9	945.1	929.0	943.0	1003.1	952.6
40°	1417.2	1420.4	1411.8	1365.7	1299.2	1192.9	1078.2	1052.4	1040.6	1094.2	1037.4
42.5°	1483.7	1514.8	1516.9	1460.1	1406.4	1348.5	1219.8	1199.4	1171.5	1216.5	1176.9
45°	1623.1	1606.0	1616.7	1596.3	1537.3	1528.7	1382.8	1371.0	1332.4	1347.4	1305.6
47.5°	1732.6	1729.3	1749.7	1716.5	1700.4	1701.4	1568.4	1548.0	1493.3	1521.2	1474.0
50°	1795.9	1778.7	1852.7	1878.5	1875.2	1888.1	1756.2	1739.0	1686.4	1727.2	1626.4
52.5°	1810.9	1842.0	1911.7	2005.0	2044.7	2071.6	1961.1	1954.6	1897.8	1923.5	1784.1
55°	1848.4	1878.5	1919.2	2072.6	2219.6	2226.0	2162.7	2169.2	2118.8	2112.3	1934.2
57.5°	1847.3	1840.9	1953.6	2131.6	2335.5	2427.7	2393.4	2362.3	2307.6	2244.3	2030.8
60°	1779.8	1776.5	1893.5	2139.1	2398.8	2610.1	2624.0	2587.6	2450.3	2356.9	2144.5
62.5°	1645.7	1658.5	1776.5	2074.8	2458.8	2675.5	2727.0	2702.4	2531.8	2432.0	2278.6
65°	1492.3	1465.4	1602.8	1913.9	2323.7	2656.2	2767.8	2759.2	2628.3	2513.6	2402.0
67.5°	1197.2	1209.0	1314.2	1646.7	2093.0	2585.4	2863.3	2876.2	2705.6	2585.4	2439.5
70°	758.5	779.9	889.3	1189.7	1709.0	2362.3	2949.1	2986.7	2766.7	2579.0	2330.1
72.5°	221.0	229.6	378.7	593.3	1088.9	1894.6	2811.8	2831.1	2647.7	2340.8	1802.3
75°	72.9	77.2	111.6	193.1	427.0	979.5	2076.9	2168.1	2107.0	1697.2	1031.0
77.5°	48.3	50.4	61.1	92.3	162.0	306.8	1113.6	1211.2	1187.6	794.9	332.6
80°	35.4	36.5	45.1	62.2	98.7	110.5	410.9	475.2	459.2	182.4	66.5
82.5°	22.5	22.5	33.3	44.0	62.2	54.7	119.1	132.0	128.7	69.7	25.7
85°	15.0	16.1	24.7	34.3	34.3	25.7	34.3	39.7	42.9	37.5	11.8
87.5°	4.3	5.4	13.9	23.6	13.9	12.9	11.8	12.9	15.0	20.4	6.4
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°	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2	518.2
2.5°	518.2	522.4	521.4	523.5	520.3	517.1	520.3	520.3	520.3	517.1	514.9
5°	522.4	520.3	522.4	518.2	522.4	518.2	516.0	509.6	508.5	508.5	512.8
7.5°	528.9	531.0	521.4	521.4	511.7	513.9	508.5	509.6	507.4	504.2	502.1
10°	538.5	547.1	537.5	534.3	523.5	514.9	502.1	495.6	495.6	491.3	495.6
12.5°	565.4	562.1	556.8	546.1	533.2	516.0	484.9	453.8	428.0	408.7	418.4
15°	586.8	585.7	578.2	557.9	540.7	488.1	409.8	329.3	286.4	267.1	263.9
17.5°	620.1	616.9	604.0	577.2	520.3	404.4	281.1	213.5	171.6	162.0	158.8
20°	651.2	650.1	622.2	587.9	468.8	295.0	183.4	140.5	128.7	129.8	127.7
22.5°	684.4	679.1	645.8	575.0	373.3	196.3	130.9	125.5	121.2	120.2	122.3
25°	722.0	702.7	669.4	546.1	274.6	135.2	123.4	119.1	114.8	113.7	113.7
27.5°	737.0	724.1	680.2	476.3	173.8	118.0	115.9	110.5	105.1	101.9	100.8
30°	771.3	749.9	690.9	374.4	123.4	108.4	105.1	98.7	91.2	85.8	85.8
32.5°	805.7	779.9	692.0	261.8	103.0	97.6	92.3	83.7	74.0	68.7	69.7
35°	848.6	813.2	680.2	169.5	92.3	85.8	75.1	65.4	56.9	52.6	52.6
37.5°	921.5	888.3	631.9	111.6	83.7	72.9	62.2	51.5	44.0	40.8	40.8
40°	1013.8	970.9	565.4	88.0	74.0	62.2	49.3	39.7	35.4	32.2	32.2
42.5°	1124.3	1070.6	466.7	78.3	65.4	51.5	38.6	31.1	26.8	26.8	25.7
45°	1234.8	1146.8	365.8	71.9	57.9	42.9	30.0	24.7	22.5	21.5	21.5
47.5°	1392.5	1239.1	261.8	65.4	50.4	33.3	24.7	20.4	18.2	17.2	18.2
50°	1543.7	1326.0	185.6	59.0	41.8	26.8	20.4	18.2	16.1	15.0	15.0
52.5°	1676.8	1386.0	129.8	51.5	35.4	22.5	18.2	16.1	15.0	13.9	13.9
55°	1749.7	1365.7	89.0	44.0	29.0	19.3	16.1	13.9	12.9	11.8	11.8
57.5°	1824.8	1308.8	67.6	36.5	23.6	18.2	15.0	12.9	11.8	10.7	10.7
60°	1888.1	1267.0	52.6	29.0	19.3	15.0	12.9	10.7	9.7	8.6	7.5
62.5°	1891.3	1183.3	38.6	21.5	15.0	12.9	10.7	8.6	5.4	4.3	3.2
65°	1904.2	1095.3	27.9	16.1	10.7	9.7	7.5	4.3	2.1	0.0	0.0
67.5°	1859.1	991.3	22.5	11.8	7.5	5.4	3.2	1.1	0.0	0.0	0.0
70°	1675.7	836.8	17.2	8.6	5.4	3.2	1.1	0.0	0.0	0.0	0.0
72.5°	1199.4	543.9	11.8	6.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	639.4	231.7	8.6	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	200.6	59.0	5.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.0	16.1	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.0	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)