

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: P676687

Luminaire Tested: **CCW-SA-1D-730-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676687  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-730-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

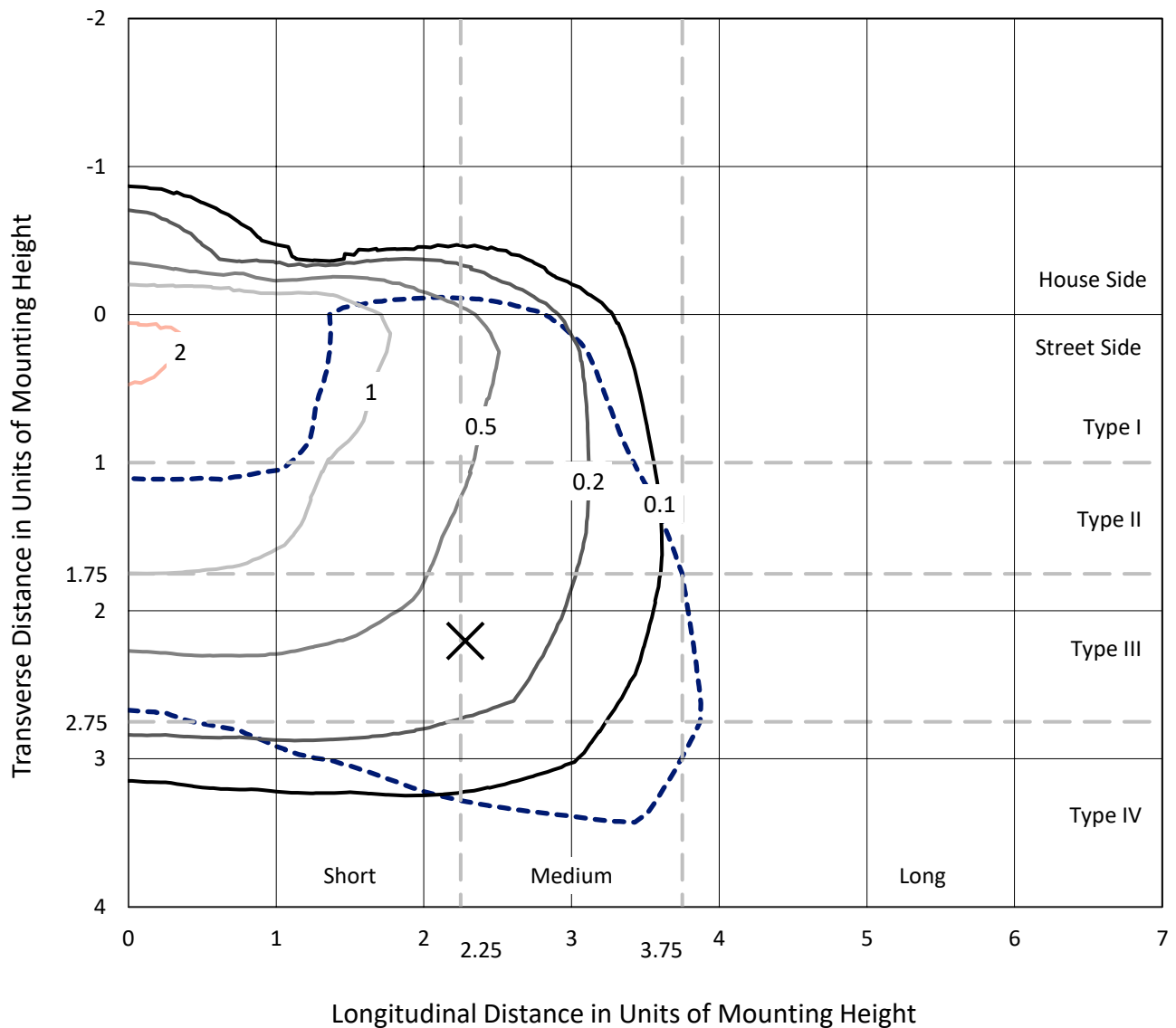
Lumens per Lamp: N/A  
Luminaire Lumens: 3663.9 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 44  
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

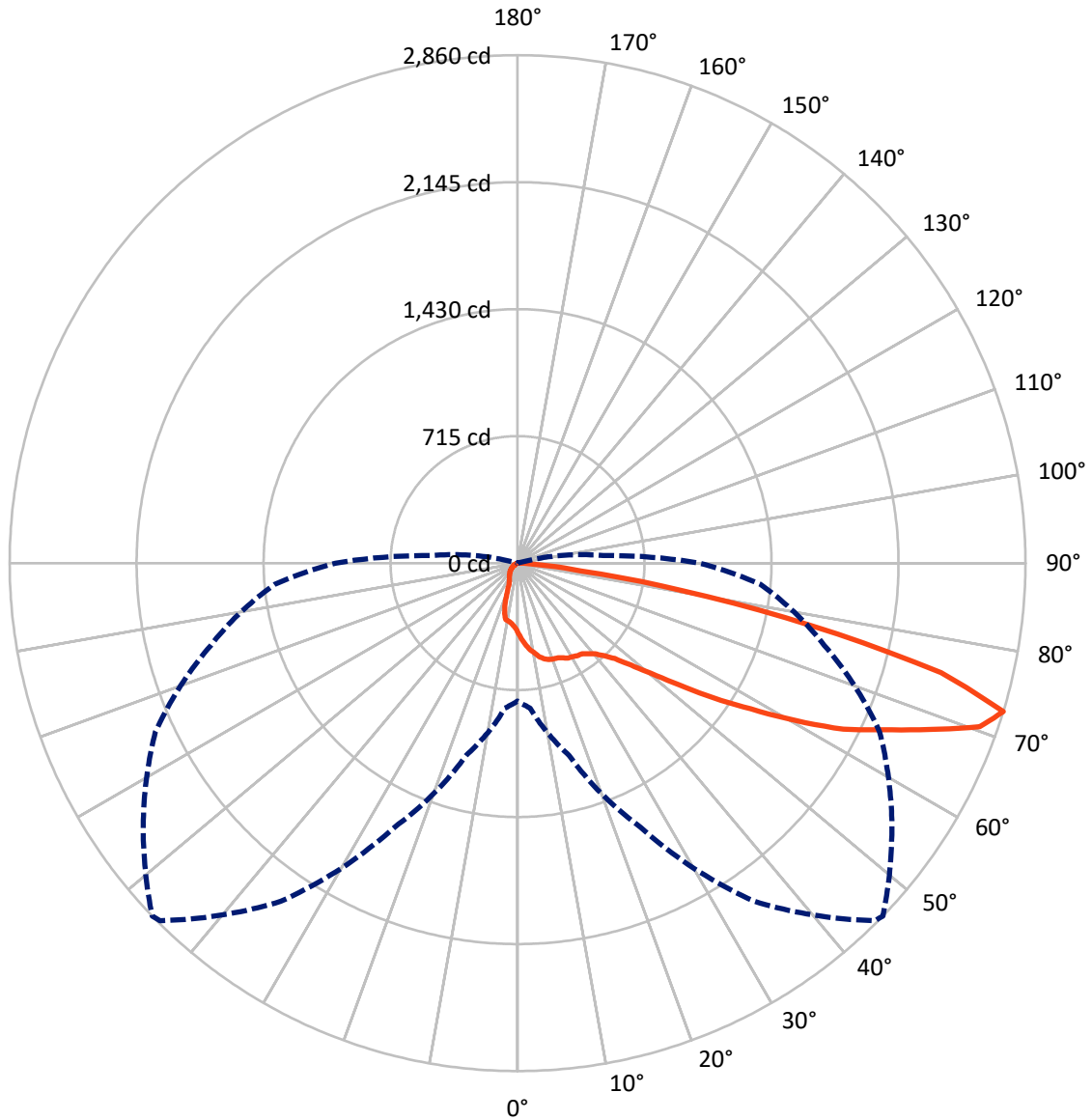
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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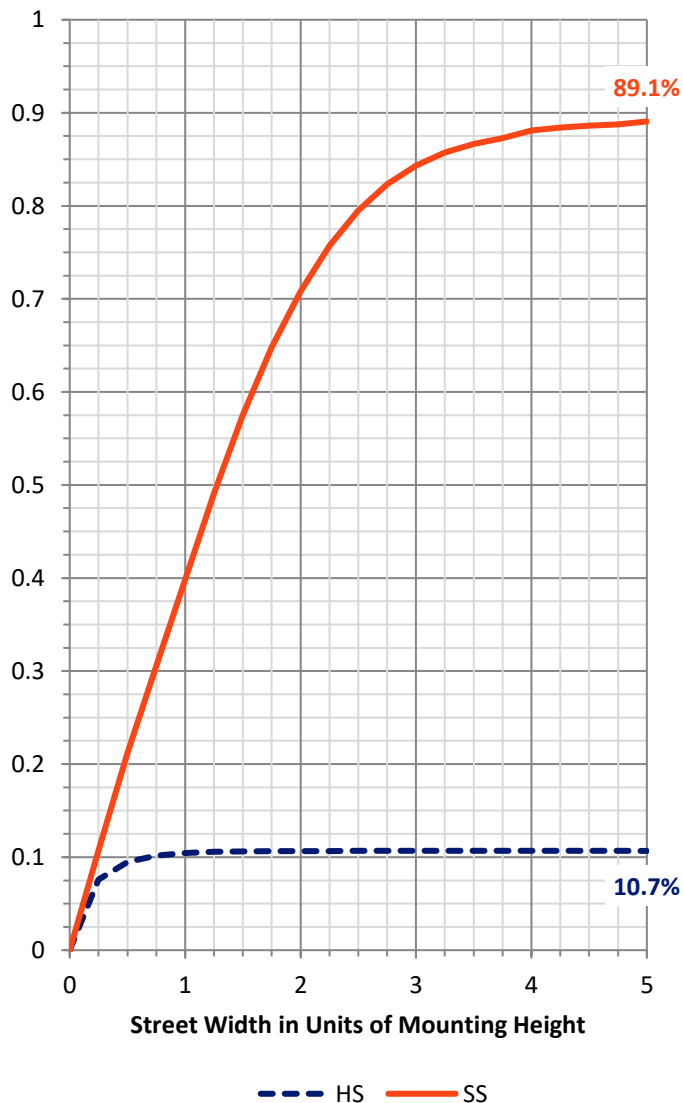
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	394.4	0.0	394.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3269.5	0.0	3269.5
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3663.9	0.0	3663.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.2	1.1
10°-20°	118.3	3.2
20°-30°	185.2	5.1
30°-40°	259.4	7.1
40°-50°	427.8	11.7
50°-60°	768.9	21.0
60°-70°	1114.4	30.4
70°-80°	695.5	19.0
80°-90°	55.1	1.5
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°	3663.9	100.0
0°-180°	3663.9	100.0



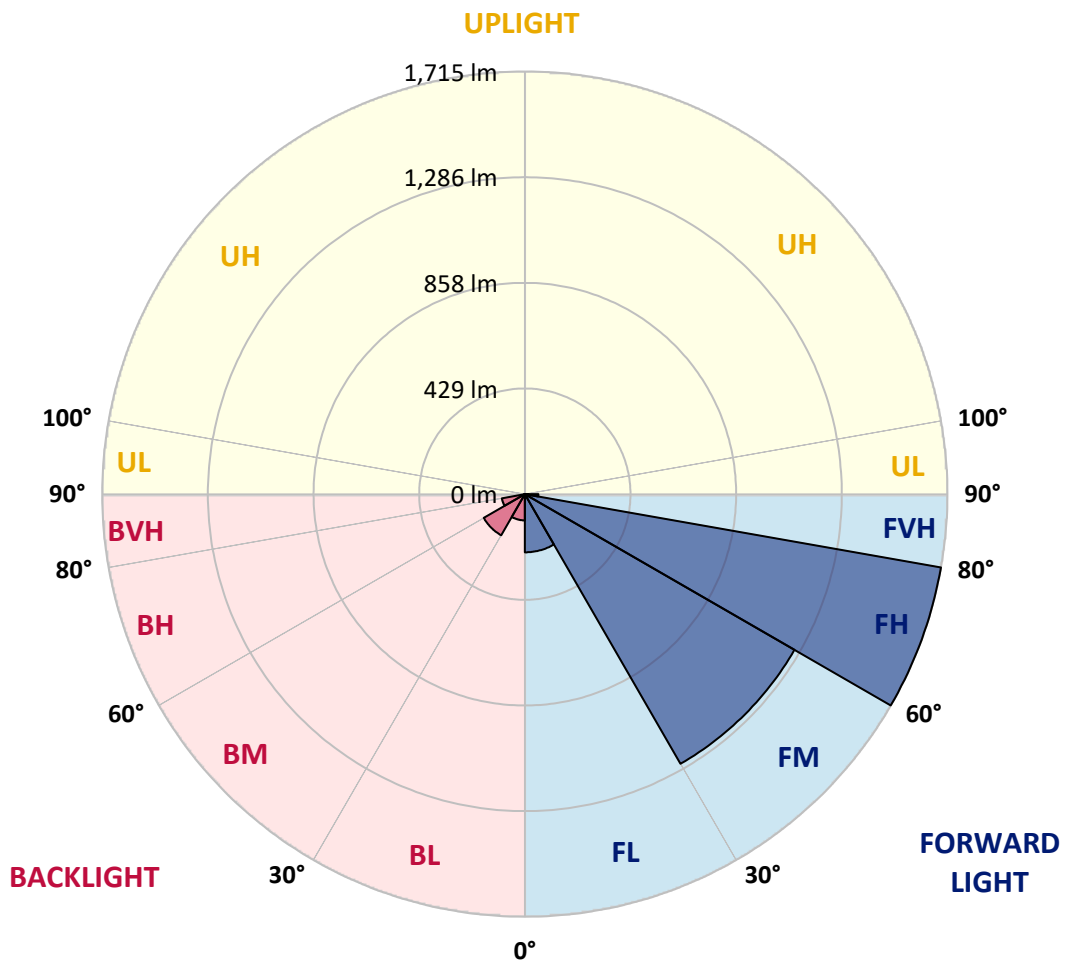
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.2	6.4			
FM (30°-60°)	1263.4	34.5			
FH (60°-80°)	1715.1	46.8			G1/1800
FVH (80°-90°)	54.8	1.5			G1/100
BL (0°-30°)	106.6	2.9	B0/110		
BM (30°-60°)	192.7	5.3	B0/220		
BH (60°-80°)	94.8	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6
2.5°	438.3	436.4	439.2	438.3	427.1	429.0	428.0	420.6	407.5	400.0	395.3
5°	488.8	493.4	489.7	481.3	474.8	461.7	459.8	447.7	427.1	414.0	400.0
7.5°	541.1	541.1	533.6	520.6	506.5	492.5	490.6	470.1	452.3	429.9	410.3
10°	580.4	575.7	570.1	556.1	540.2	521.5	512.1	497.2	477.6	450.5	425.2
12.5°	614.9	607.5	598.1	577.6	558.9	538.3	540.2	515.9	502.8	478.5	441.1
15°	634.6	628.0	619.6	600.9	572.0	562.6	558.9	543.9	520.6	496.3	460.7
17.5°	639.2	634.6	623.4	599.1	583.2	572.0	571.0	553.3	543.0	522.4	483.2
20°	629.9	621.5	613.1	597.2	582.2	578.5	575.7	575.7	562.6	535.5	497.2
22.5°	614.0	604.7	600.0	590.6	578.5	577.6	579.4	577.6	567.3	549.5	512.1
25°	601.9	597.2	589.7	586.9	579.4	593.4	590.6	587.8	585.0	564.5	535.5
27.5°	605.6	604.7	599.1	587.8	582.2	597.2	605.6	606.5	605.6	585.0	557.0
30°	607.5	602.8	597.2	594.4	596.3	611.2	611.2	631.8	623.4	602.8	578.5
32.5°	629.0	626.2	607.5	600.9	601.9	619.6	620.6	641.1	638.3	624.3	597.2
35°	674.8	656.1	629.0	610.3	610.3	633.6	626.2	656.1	663.5	641.1	610.3
37.5°	743.0	729.0	680.4	638.3	622.4	639.2	646.7	663.5	686.0	666.3	636.4
40°	878.5	875.7	806.5	715.9	653.3	668.2	671.0	697.2	712.1	685.0	676.6
42.5°	1076.6	1062.6	998.1	855.1	709.3	702.8	713.1	729.9	765.4	743.0	722.4
45°	1270.1	1263.5	1199.0	1039.2	811.2	771.9	766.3	796.2	848.6	824.3	808.4
47.5°	1410.3	1397.2	1360.7	1226.1	960.7	853.3	857.0	886.9	953.3	934.6	939.2
50°	1517.7	1511.2	1472.9	1399.0	1149.5	981.3	973.8	1003.7	1093.4	1105.6	1118.7
52.5°	1635.5	1647.6	1596.2	1533.6	1372.9	1153.3	1136.4	1146.7	1262.6	1290.6	1327.1
55°	1748.6	1768.2	1716.8	1708.4	1606.5	1343.9	1341.1	1316.8	1466.3	1470.1	1489.7
57.5°	1822.4	1815.9	1812.1	1857.9	1840.2	1562.6	1548.6	1524.3	1659.8	1635.5	1694.4
60°	1828.0	1846.7	1909.3	2022.4	2054.2	1819.6	1799.0	1732.7	1827.1	1769.1	1881.3
62.5°	1870.1	1885.0	2000.9	2157.0	2198.1	2045.8	2059.8	1891.6	1970.1	1924.3	2088.8
65°	1763.5	1810.3	2043.0	2261.6	2386.9	2274.7	2260.7	2096.2	2116.8	2073.8	2293.4
67.5°	1667.3	1685.0	1928.0	2293.4	2536.4	2504.6	2499.0	2277.5	2268.2	2188.7	2351.4
70°	1355.1	1376.6	1616.8	2130.8	2586.9	2772.9	2759.8	2531.7	2371.0	2126.1	2054.2
72.5°	776.6	819.6	1120.5	1641.1	2324.3	2847.6	2859.8	2572.9	2249.5	1787.8	1371.9
75°	254.2	266.4	465.4	929.9	1738.3	2484.1	2462.6	2211.2	1814.9	1180.4	619.6
77.5°	86.0	87.8	137.4	336.4	963.5	1678.5	1690.6	1580.3	1114.9	490.6	171.0
80°	43.9	46.7	67.3	126.2	396.3	914.0	933.6	900.9	467.3	144.9	41.1
82.5°	20.6	21.5	39.3	70.1	181.3	358.9	358.9	394.4	165.4	81.3	16.8
85°	7.5	7.5	20.6	40.2	76.6	119.6	120.6	121.5	86.9	60.7	7.5
87.5°	2.8	2.8	10.3	16.8	28.0	36.4	36.4	29.0	43.9	40.2	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6	391.6
2.5°	393.5	387.8	383.2	376.6	368.2	363.5	364.5	358.9	358.9	356.1	355.1
5°	393.5	387.8	375.7	364.5	357.0	347.7	343.0	339.2	339.2	337.4	338.3
7.5°	396.3	387.8	371.0	356.1	343.9	334.6	327.1	326.2	324.3	319.6	323.4
10°	413.1	400.9	372.9	352.3	338.3	328.0	314.9	311.2	305.6	297.2	298.1
12.5°	427.1	411.2	386.0	357.9	340.2	323.4	293.5	260.7	246.7	231.8	232.7
15°	447.7	425.2	390.6	365.4	340.2	286.0	231.8	189.7	167.3	156.1	156.1
17.5°	458.9	440.2	403.7	370.1	313.1	232.7	164.5	128.0	124.3	126.2	126.2
20°	482.2	457.0	418.7	373.8	268.2	165.4	120.6	116.8	118.7	122.4	121.5
22.5°	497.2	472.0	429.9	357.0	207.5	118.7	113.1	111.2	113.1	117.8	117.8
25°	509.3	493.4	447.7	315.9	146.7	107.5	105.6	107.5	109.3	111.2	114.0
27.5°	539.2	512.1	459.8	262.6	105.6	100.0	101.9	102.8	102.8	105.6	106.5
30°	558.9	537.4	469.2	202.8	93.5	92.5	94.4	95.3	96.3	99.1	100.0
32.5°	577.6	570.1	457.0	137.4	87.8	86.0	85.0	86.0	89.7	92.5	91.6
35°	604.7	600.0	439.2	95.3	82.2	78.5	76.6	77.6	80.4	83.2	82.2
37.5°	637.4	642.0	396.3	83.2	76.6	72.0	68.2	68.2	69.2	72.0	72.9
40°	675.7	687.8	345.8	77.6	72.9	67.3	63.6	58.9	57.9	57.0	57.9
42.5°	745.8	759.8	288.8	73.8	67.3	60.7	55.1	49.5	44.9	42.1	42.1
45°	843.9	832.7	214.0	70.1	64.5	55.1	46.7	40.2	33.6	30.8	30.8
47.5°	979.4	941.1	146.7	66.4	59.8	48.6	39.3	30.8	25.2	22.4	22.4
50°	1167.3	1041.1	95.3	62.6	57.0	42.1	31.8	22.4	18.7	17.8	18.7
52.5°	1344.8	1143.0	75.7	57.9	51.4	36.4	24.3	18.7	16.8	15.9	15.9
55°	1508.4	1194.4	67.3	53.3	46.7	29.9	20.6	15.9	15.0	14.0	14.0
57.5°	1646.7	1212.1	57.9	46.7	37.4	23.4	16.8	14.0	12.1	11.2	11.2
60°	1766.3	1216.8	44.9	37.4	27.1	17.8	14.0	12.1	10.3	8.4	8.4
62.5°	1861.7	1184.1	31.8	26.2	18.7	14.0	12.1	8.4	5.6	3.7	2.8
65°	1937.4	1118.7	21.5	17.8	12.1	10.3	7.5	3.7	0.9	0.0	0.0
67.5°	1848.6	970.1	16.8	13.1	8.4	6.5	3.7	0.9	0.0	0.0	0.0
70°	1507.5	752.3	12.1	8.4	5.6	1.9	0.9	0.0	0.0	0.0	0.0
72.5°	1026.2	485.0	9.3	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	460.7	173.8	6.5	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	112.1	41.1	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.9	10.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.2	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.9	0.0	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)