

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: P676378

Luminaire Tested: **CCW-SA-1E-722-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676378  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-722-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) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3628.1 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

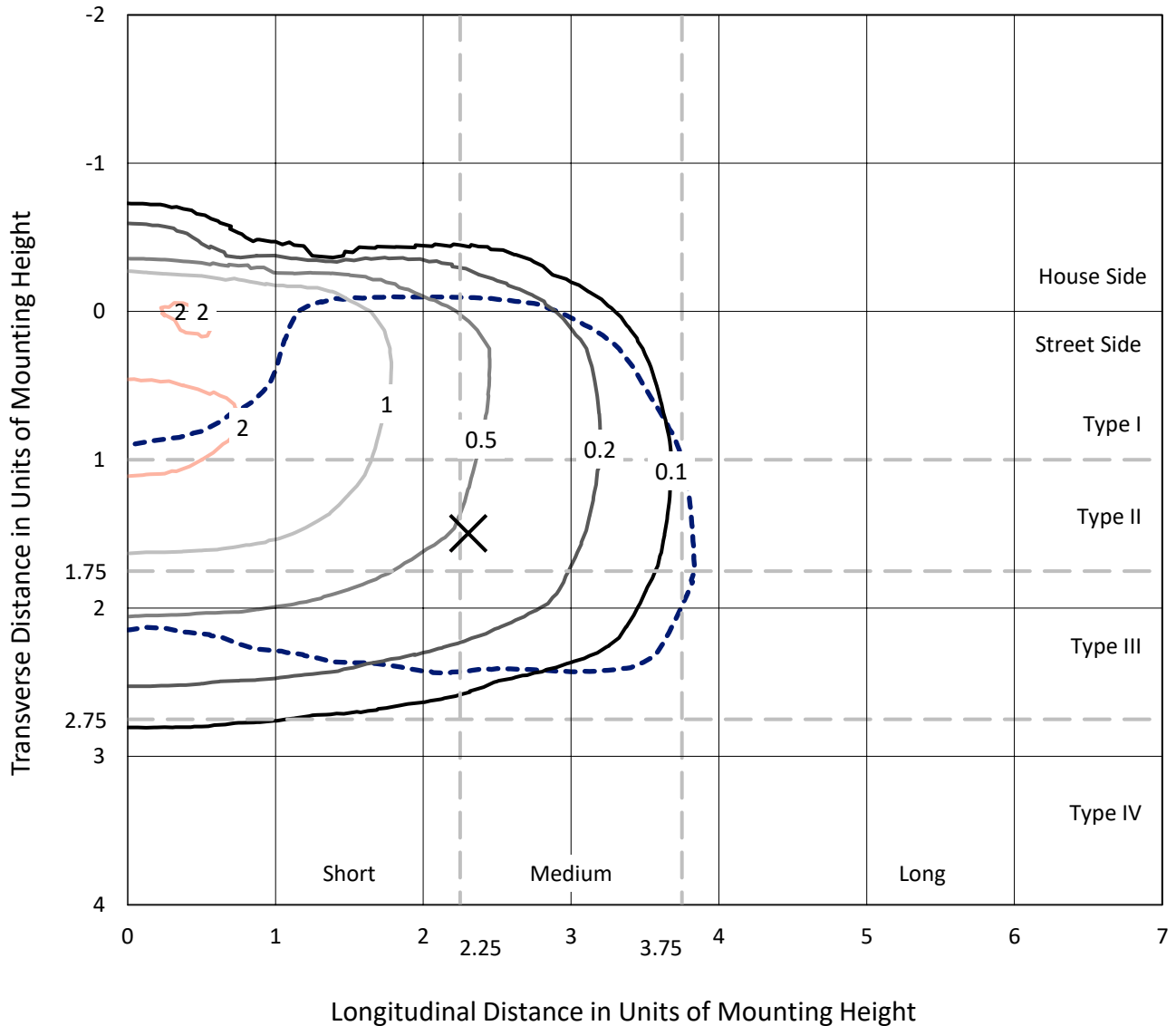
Input Watts (W): 56.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

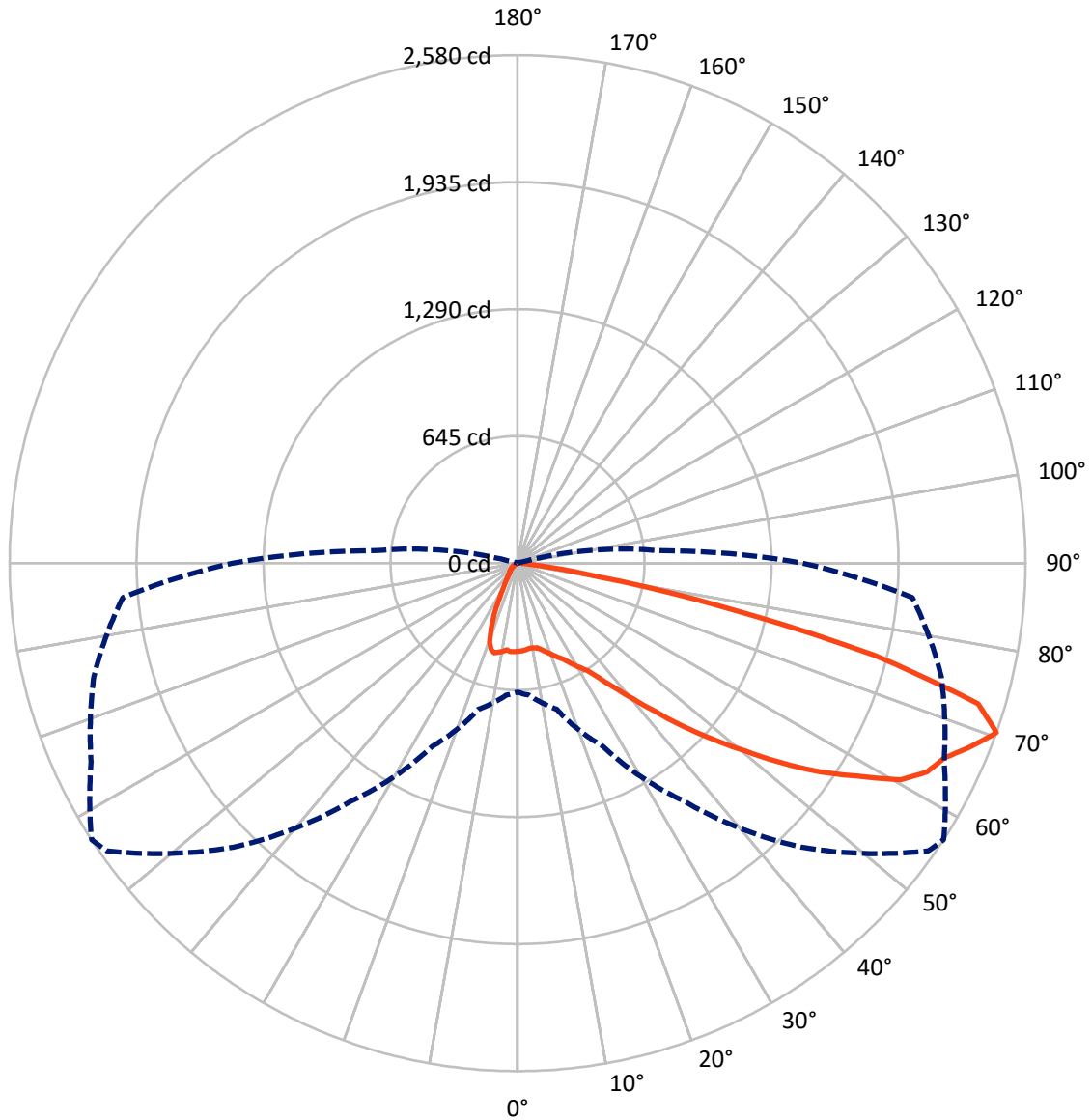
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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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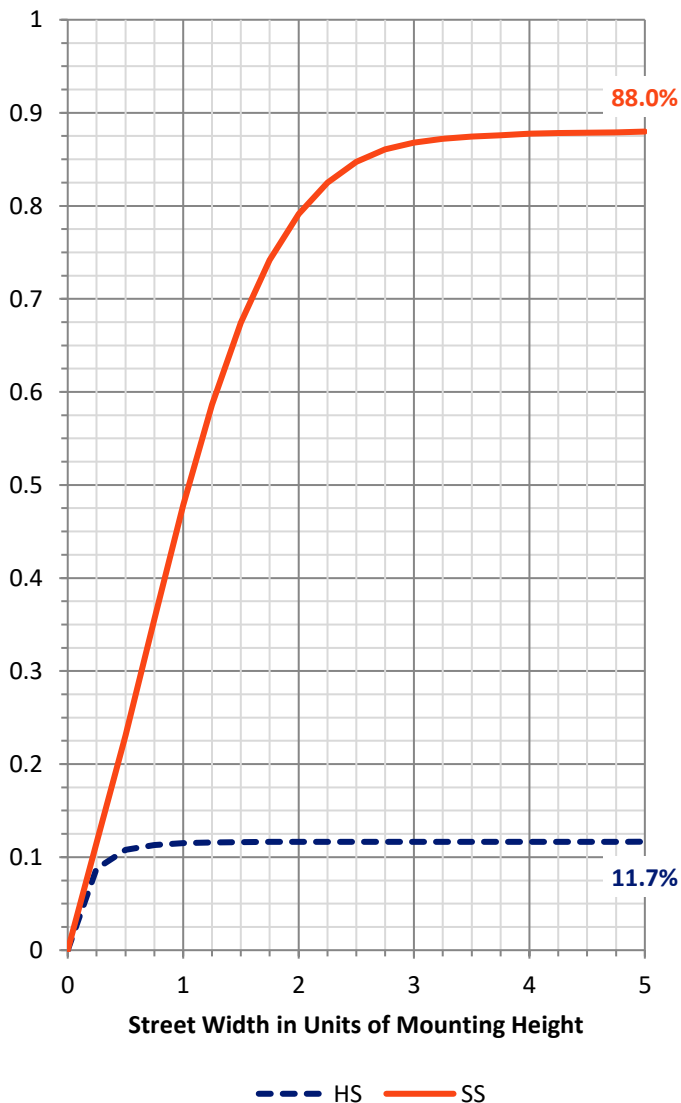
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	427.7	0.0	427.7
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3200.5	0.0	3200.5
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	3628.1	0.0	3628.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	1.2
10°-20°	117.0	3.2
20°-30°	197.0	5.4
30°-40°	337.2	9.3
40°-50°	566.2	15.6
50°-60°	869.1	24.0
60°-70°	1003.4	27.7
70°-80°	474.0	13.1
80°-90°	22.5	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°	3628.1	100.0
0°-180°	3628.1	100.0



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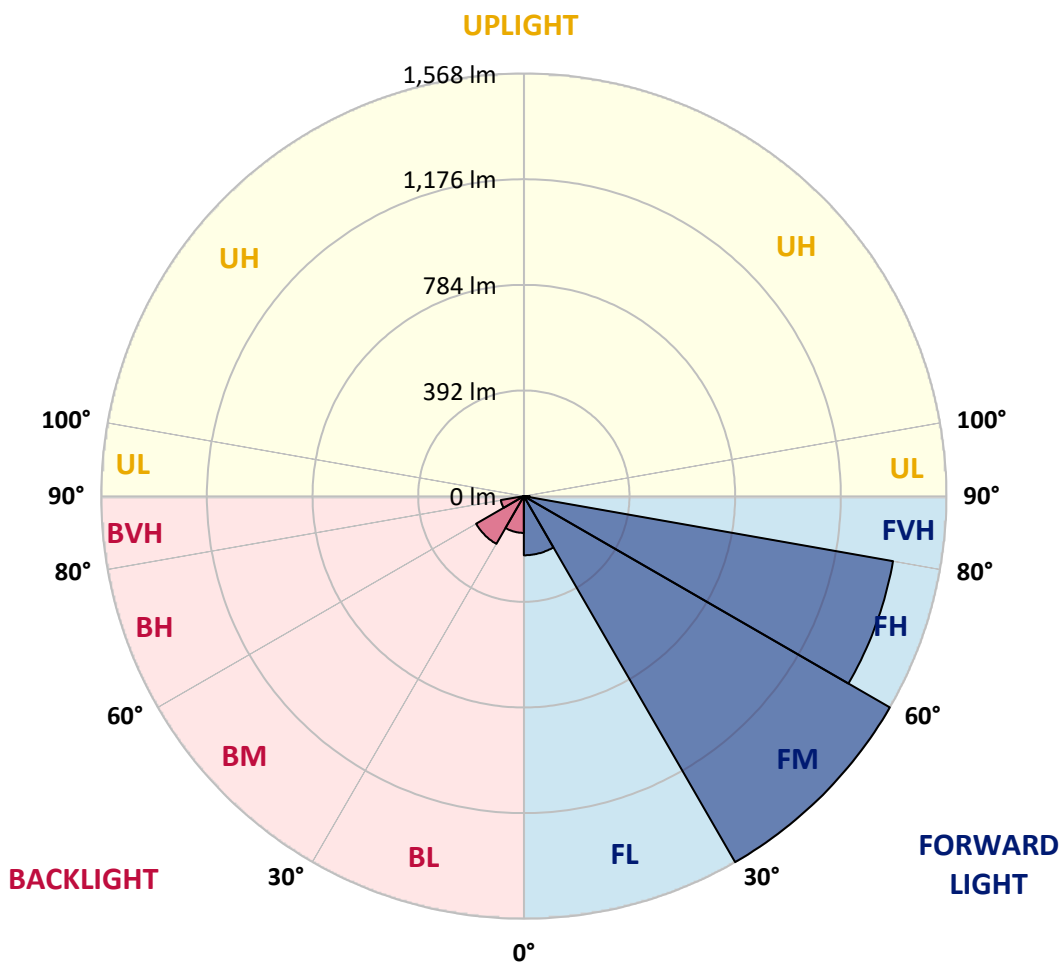
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.5	6.0			
FM (30°-60°)	1568.0	43.2			
FH (60°-80°)	1390.9	38.3			G1/1800
FVH (80°-90°)	22.1	0.6			G1/100
BL (0°-30°)	136.3	3.8	B1/500		
BM (30°-60°)	204.4	5.6	B0/220		
BH (60°-80°)	86.5	2.4	B0/110		G0/110
BVH (80°-90°)	0.4	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°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7
2.5°	441.2	438.4	441.2	444.9	441.2	444.0	443.0	445.8	442.1	442.1	444.9
5°	412.4	417.1	418.9	423.6	428.2	436.5	442.1	442.1	447.7	450.4	454.1
7.5°	402.2	394.8	402.2	406.0	410.6	424.5	432.8	436.5	444.0	454.1	459.7
10°	387.4	393.0	393.0	405.0	411.5	419.9	434.7	437.5	454.1	464.3	469.9
12.5°	386.5	386.5	391.1	399.5	412.4	428.2	446.7	441.2	458.8	477.3	486.6
15°	389.3	395.8	395.8	406.9	417.1	439.3	455.1	456.0	481.0	499.6	507.9
17.5°	401.3	398.5	402.2	408.7	424.5	445.8	471.8	474.5	503.3	528.3	540.3
20°	426.3	431.0	425.4	421.7	428.2	456.0	489.4	494.9	527.4	551.5	563.5
22.5°	520.0	516.2	494.0	468.1	456.9	469.9	506.1	519.0	557.0	585.8	596.0
25°	625.6	619.1	593.2	554.2	503.3	497.7	539.4	539.4	594.1	625.6	622.8
27.5°	725.7	723.9	693.3	652.5	580.2	540.3	566.3	576.5	635.8	661.8	649.7
30°	827.7	829.5	801.7	752.6	676.6	608.9	604.3	612.6	667.3	708.1	683.1
32.5°	946.3	929.6	910.2	842.5	773.0	697.0	653.4	649.7	702.5	739.6	706.2
35°	1052.0	1041.8	1020.4	959.3	879.6	788.7	727.6	718.3	747.0	796.2	760.0
37.5°	1144.6	1134.4	1106.6	1065.9	1003.8	902.7	816.5	802.6	814.7	866.6	823.0
40°	1224.3	1227.1	1219.7	1179.9	1122.4	1030.6	931.5	909.2	899.0	945.4	896.2
42.5°	1281.8	1308.7	1310.5	1261.4	1215.1	1165.0	1053.8	1036.2	1012.1	1051.0	1016.7
45°	1402.3	1387.5	1396.7	1379.1	1328.2	1320.7	1194.7	1184.5	1151.1	1164.1	1128.0
47.5°	1496.8	1494.1	1511.7	1482.9	1469.0	1470.0	1355.0	1337.4	1290.2	1314.3	1273.5
50°	1551.5	1536.7	1600.6	1622.9	1620.1	1631.2	1517.2	1502.4	1457.0	1492.2	1405.1
52.5°	1564.5	1591.4	1651.6	1732.3	1766.5	1789.7	1694.3	1688.7	1639.6	1661.8	1541.3
55°	1596.9	1622.9	1658.1	1790.6	1917.6	1923.2	1868.5	1874.1	1830.5	1824.9	1671.1
57.5°	1596.0	1590.4	1687.8	1841.6	2017.7	2097.4	2067.8	2040.9	1993.6	1938.9	1754.5
60°	1537.6	1534.8	1635.9	1848.1	2072.4	2255.0	2267.0	2235.5	2116.9	2036.3	1852.7
62.5°	1421.8	1432.9	1534.8	1792.5	2124.3	2311.5	2356.0	2334.7	2187.3	2101.1	1968.6
65°	1289.2	1266.1	1384.7	1653.5	2007.5	2294.8	2391.2	2383.8	2270.7	2171.6	2075.2
67.5°	1034.3	1044.5	1135.4	1422.7	1808.3	2233.7	2473.7	2484.8	2337.5	2233.7	2107.6
70°	655.3	673.8	768.3	1027.9	1476.4	2040.9	2547.9	2580.3	2390.3	2228.1	2013.1
72.5°	190.9	198.3	327.2	512.5	940.7	1636.8	2429.2	2445.9	2287.4	2022.4	1557.1
75°	63.0	66.7	96.4	166.8	368.9	846.2	1794.4	1873.1	1820.3	1466.3	890.7
77.5°	41.7	43.6	52.8	79.7	140.0	265.1	962.1	1046.4	1026.0	686.8	287.3
80°	30.6	31.5	38.9	53.8	85.3	95.5	355.0	410.6	396.7	157.6	57.5
82.5°	19.5	19.5	28.7	38.0	53.8	47.3	102.9	114.0	111.2	60.2	22.2
85°	13.0	13.9	21.3	29.7	29.7	22.2	29.7	34.3	37.1	32.4	10.2
87.5°	3.7	4.6	12.0	20.4	12.0	11.1	10.2	11.1	13.0	17.6	5.6
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°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7
2.5°	447.7	451.4	450.4	452.3	449.5	446.7	449.5	449.5	449.5	446.7	444.9
5°	451.4	449.5	451.4	447.7	451.4	447.7	445.8	440.2	439.3	439.3	443.0
7.5°	456.9	458.8	450.4	450.4	442.1	444.0	439.3	440.2	438.4	435.6	433.8
10°	465.3	472.7	464.3	461.6	452.3	444.9	433.8	428.2	428.2	424.5	428.2
12.5°	488.4	485.7	481.0	471.8	460.6	445.8	418.9	392.1	369.8	353.1	361.5
15°	507.0	506.1	499.6	482.0	467.1	421.7	354.1	284.5	247.5	230.8	228.0
17.5°	535.7	532.9	521.8	498.6	449.5	349.4	242.8	184.4	148.3	140.0	137.2
20°	562.6	561.7	537.6	507.9	405.0	254.9	158.5	121.4	111.2	112.1	110.3
22.5°	591.3	586.7	558.0	496.8	322.5	169.6	113.1	108.4	104.7	103.8	105.7
25°	623.8	607.1	578.3	471.8	237.3	116.8	106.6	102.9	99.2	98.2	98.2
27.5°	636.7	625.6	587.6	411.5	150.1	102.0	100.1	95.5	90.8	88.0	87.1
30°	666.4	647.9	596.9	323.5	106.6	93.6	90.8	85.3	78.8	74.1	74.1
32.5°	696.1	673.8	597.8	226.1	89.0	84.3	79.7	72.3	64.0	59.3	60.2
35°	733.1	702.5	587.6	146.4	79.7	74.1	64.9	56.5	49.1	45.4	45.4
37.5°	796.2	767.4	545.9	96.4	72.3	63.0	53.8	44.5	38.0	35.2	35.2
40°	875.9	838.8	488.4	76.0	64.0	53.8	42.6	34.3	30.6	27.8	27.8
42.5°	971.3	925.0	403.2	67.7	56.5	44.5	33.4	26.9	23.2	23.2	22.2
45°	1066.8	990.8	316.1	62.1	50.0	37.1	26.0	21.3	19.5	18.5	18.5
47.5°	1203.0	1070.5	226.1	56.5	43.6	28.7	21.3	17.6	15.8	14.8	15.8
50°	1333.7	1145.6	160.3	51.0	36.1	23.2	17.6	15.8	13.9	13.0	13.0
52.5°	1448.6	1197.5	112.1	44.5	30.6	19.5	15.8	13.9	13.0	12.0	12.0
55°	1511.7	1179.9	76.9	38.0	25.0	16.7	13.9	12.0	11.1	10.2	10.2
57.5°	1576.5	1130.7	58.4	31.5	20.4	15.8	13.0	11.1	10.2	9.3	9.3
60°	1631.2	1094.6	45.4	25.0	16.7	13.0	11.1	9.3	8.3	7.4	6.5
62.5°	1634.0	1022.3	33.4	18.5	13.0	11.1	9.3	7.4	4.6	3.7	2.8
65°	1645.1	946.3	24.1	13.9	9.3	8.3	6.5	3.7	1.9	0.0	0.0
67.5°	1606.2	856.4	19.5	10.2	6.5	4.6	2.8	0.9	0.0	0.0	0.0
70°	1447.7	722.9	14.8	7.4	4.6	2.8	0.9	0.0	0.0	0.0	0.0
72.5°	1036.2	469.9	10.2	5.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	552.4	200.2	7.4	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	173.3	51.0	4.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.0	13.9	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.9	0.9	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)