

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: P676544

Luminaire Tested: **CCW-SA-1E-730-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676544  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-730-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

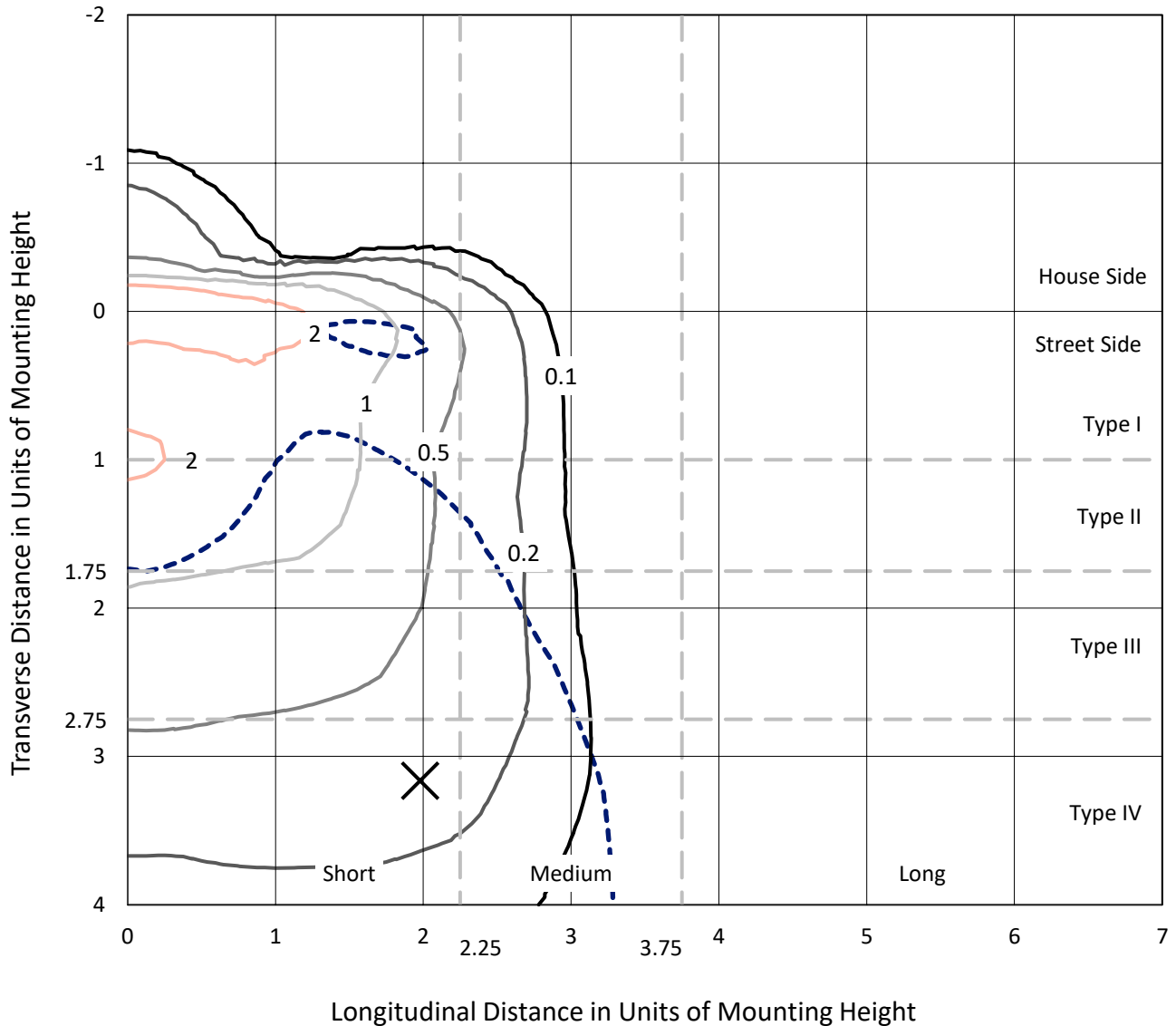
Lumens per Lamp: N/A  
Luminaire Lumens: 4470.4 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

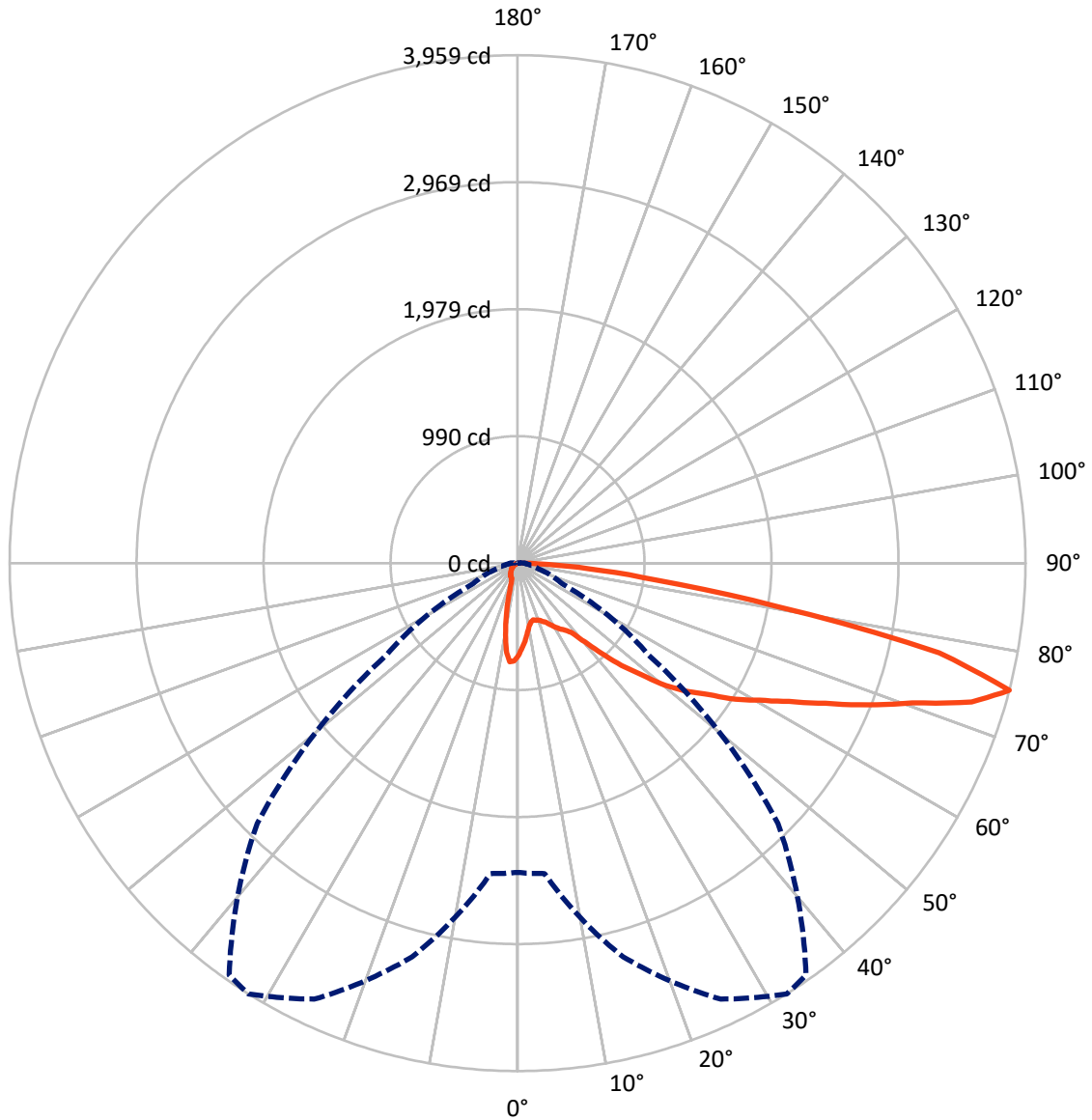
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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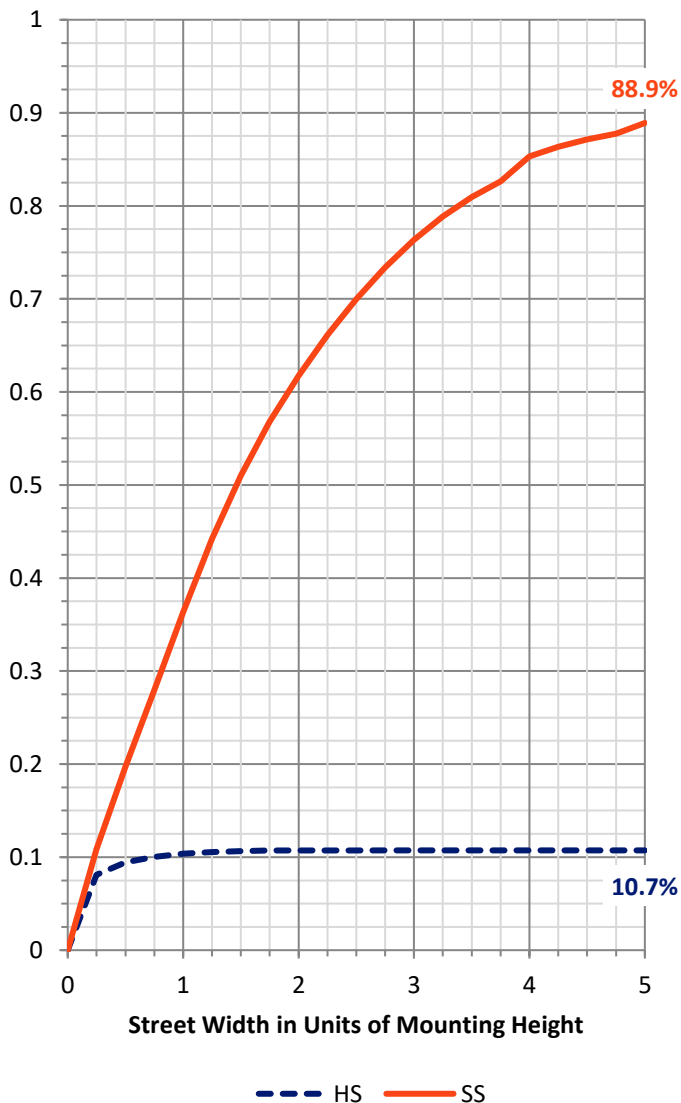
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	482.9	0.0	482.9
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3987.5	0.0	3987.5
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4470.4	0.0	4470.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	1.4
10°-20°	144.0	3.2
20°-30°	215.6	4.8
30°-40°	331.0	7.4
40°-50°	578.8	12.9
50°-60°	904.8	20.2
60°-70°	1169.7	26.2
70°-80°	952.7	21.3
80°-90°	110.3	2.5
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°	4470.4	100.0
0°-180°	4470.4	100.0



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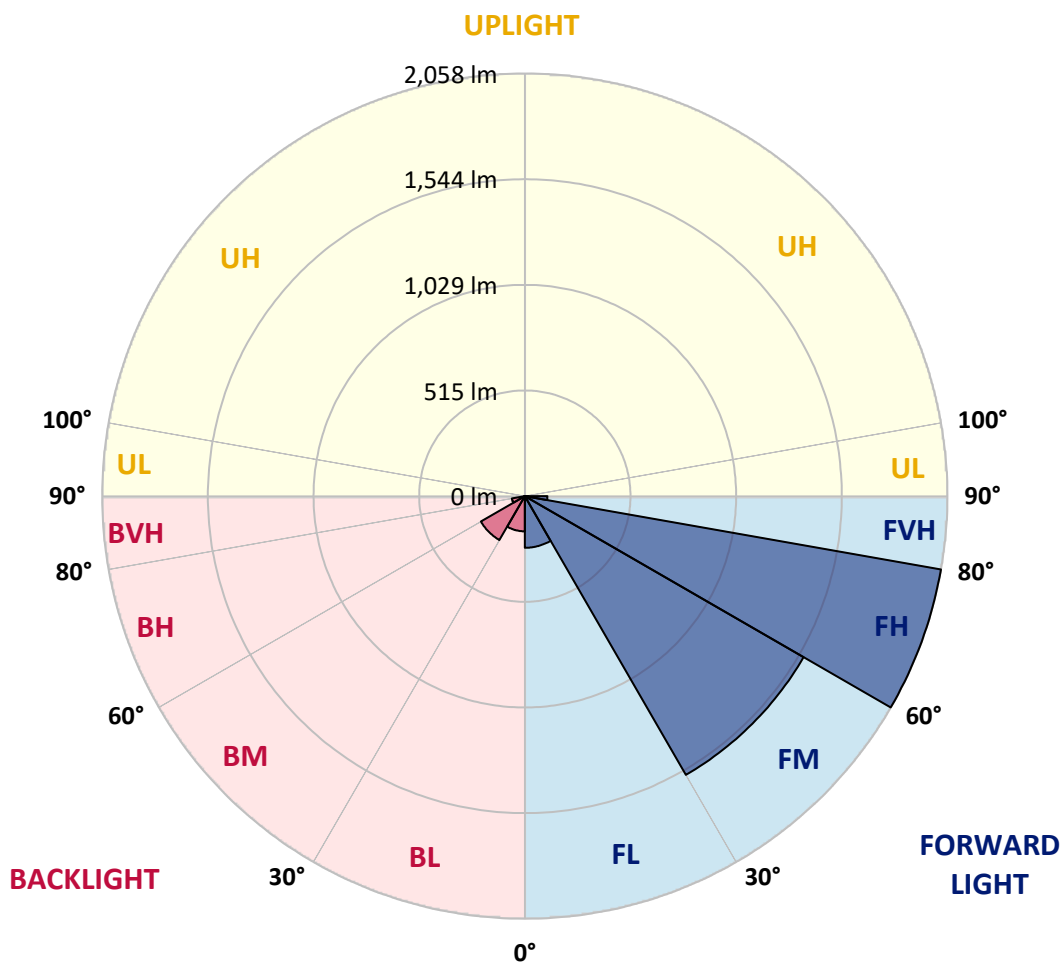
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.5	5.6			
FM (30°-60°)	1567.5	35.1			
FH (60°-80°)	2058.2	46.0			G2/5000
FVH (80°-90°)	110.2	2.5			G2/225
BL (0°-30°)	171.6	3.8	B1/500		
BM (30°-60°)	247.1	5.5	B1/1000		
BH (60°-80°)	64.2	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8
2.5°	647.4	656.5	655.4	661.1	662.3	665.7	673.7	673.7	696.6	712.7	723.0
5°	588.9	583.2	585.5	592.4	609.5	608.4	627.9	638.2	665.7	688.6	712.7
7.5°	516.7	515.6	520.2	536.2	548.8	559.1	579.8	606.1	642.8	677.1	719.5
10°	470.9	468.6	477.8	482.4	497.3	504.1	536.2	577.5	621.0	670.3	719.5
12.5°	460.6	452.6	457.2	456.0	469.8	473.2	504.1	554.6	607.3	668.0	728.7
15°	466.3	460.6	456.0	456.0	459.5	461.7	495.0	539.7	599.2	671.4	749.3
17.5°	484.7	481.2	467.5	453.7	468.6	468.6	489.2	536.2	600.4	681.7	774.5
20°	506.4	503.0	478.9	462.9	473.2	484.7	506.4	544.2	603.8	689.8	813.5
22.5°	530.5	530.5	497.3	478.9	492.7	493.8	532.8	569.4	617.6	710.4	838.7
25°	560.3	558.0	525.9	505.3	509.9	522.5	558.0	596.9	642.8	739.0	885.7
27.5°	599.2	595.8	558.0	537.4	543.1	556.8	596.9	635.9	665.7	750.5	925.8
30°	631.3	627.9	596.9	566.0	578.6	591.2	638.2	672.6	694.3	772.2	971.6
32.5°	638.2	632.5	611.8	598.1	611.8	635.9	672.6	708.1	741.3	827.2	1058.7
35°	717.3	696.6	642.8	621.0	641.6	649.7	710.4	773.4	805.5	870.8	1156.1
37.5°	868.5	849.0	778.0	717.3	688.6	697.8	776.8	854.7	885.7	952.1	1262.6
40°	1054.1	1022.0	946.4	865.1	806.6	795.2	846.7	961.3	991.1	1054.1	1402.4
42.5°	1266.1	1235.1	1118.3	1022.0	962.4	947.6	955.6	1085.0	1110.2	1148.1	1494.1
45°	1418.5	1402.4	1270.7	1184.7	1137.7	1121.7	1102.2	1220.2	1252.3	1264.9	1627.0
47.5°	1506.7	1495.2	1421.9	1363.5	1300.4	1283.3	1295.9	1408.1	1386.4	1396.7	1754.2
50°	1624.7	1594.9	1495.2	1513.6	1501.0	1496.4	1518.1	1567.4	1535.3	1505.5	1892.8
52.5°	1719.8	1667.1	1597.2	1641.9	1661.4	1678.6	1755.3	1792.0	1648.8	1602.9	1982.2
55°	1778.2	1727.8	1746.2	1787.4	1808.0	1887.1	1977.6	1950.1	1723.2	1680.8	2101.3
57.5°	1830.9	1834.4	1883.6	1896.2	2001.7	2015.4	2189.6	2100.2	1775.9	1751.9	2148.3
60°	1958.1	1945.5	1985.6	2067.0	2167.8	2244.6	2410.7	2201.0	1802.3	1788.5	2135.7
62.5°	2187.3	2109.4	2123.1	2226.2	2374.0	2457.7	2537.9	2246.9	1795.4	1794.3	2097.9
65°	2478.3	2388.9	2347.7	2443.9	2635.3	2753.3	2681.1	2298.4	1749.6	1781.7	1957.0
67.5°	2720.1	2721.2	2644.4	2698.3	2948.1	2973.3	2816.3	2288.1	1672.8	1682.0	1613.2
70°	2998.5	3036.3	2968.7	3137.1	3262.0	3278.0	2971.0	2203.3	1507.8	1268.4	926.9
72.5°	3069.5	3089.0	3299.8	3558.8	3699.7	3704.3	3123.4	1920.3	992.2	560.3	287.6
75°	2410.7	2429.0	3176.1	3749.0	3958.6	3918.5	2869.0	1246.6	386.1	163.8	68.7
77.5°	1345.1	1350.9	1971.9	3030.6	3358.2	3196.7	2009.7	485.8	155.8	94.0	32.1
80°	367.8	432.0	731.0	1494.1	2050.9	2013.1	956.7	158.1	100.8	73.3	14.9
82.5°	88.2	95.1	234.9	661.1	1083.9	1130.9	285.3	80.2	69.9	60.7	8.0
85°	32.1	35.5	72.2	322.0	556.8	511.0	85.9	40.1	51.6	47.0	3.4
87.5°	11.5	11.5	22.9	105.4	162.7	122.6	28.6	13.7	26.4	28.6	1.1
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°	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8	721.8
2.5°	724.1	724.1	740.2	753.9	758.5	764.2	758.5	771.1	770.0	764.2	766.5
5°	725.3	745.9	759.6	768.8	773.4	772.2	774.5	760.8	752.8	747.0	741.3
7.5°	731.0	750.5	775.7	773.4	760.8	734.4	713.8	677.1	641.6	640.5	634.8
10°	750.5	767.7	782.6	773.4	727.6	647.4	582.1	532.8	488.1	467.5	469.8
12.5°	764.2	796.3	789.4	742.5	647.4	541.9	445.7	373.5	333.4	295.6	295.6
15°	792.9	804.3	802.0	697.8	548.8	422.8	305.9	232.6	190.2	173.0	170.7
17.5°	820.4	833.0	794.0	630.2	451.4	284.2	185.6	144.4	138.6	136.3	137.5
20°	854.7	855.9	787.1	562.6	339.1	179.9	132.9	129.5	130.6	129.5	129.5
22.5°	891.4	899.4	763.1	467.5	225.7	130.6	123.7	124.9	124.9	124.9	128.3
25°	939.5	926.9	725.3	377.0	147.8	120.3	120.3	121.5	121.5	121.5	122.6
27.5°	971.6	954.4	677.1	271.5	115.7	113.4	115.7	115.7	118.0	118.0	118.0
30°	1038.1	993.4	616.4	175.3	104.3	107.7	110.0	112.3	113.4	115.7	116.9
32.5°	1089.6	1027.8	540.8	116.9	95.1	97.4	103.1	107.7	112.3	111.1	111.1
35°	1183.6	1083.9	470.9	92.8	87.1	87.1	92.8	100.8	107.7	110.0	110.0
37.5°	1291.3	1129.7	373.5	84.8	80.2	80.2	83.6	92.8	102.0	106.6	104.3
40°	1380.7	1182.4	276.1	79.1	74.5	74.5	76.8	83.6	94.0	102.0	103.1
42.5°	1443.7	1221.4	186.8	73.3	69.9	68.7	72.2	75.6	83.6	95.1	97.4
45°	1501.0	1242.0	115.7	67.6	65.3	65.3	65.3	68.7	74.5	84.8	87.1
47.5°	1602.9	1264.9	83.6	63.0	59.6	60.7	61.9	63.0	67.6	69.9	71.0
50°	1688.9	1282.1	68.7	58.4	56.1	57.3	57.3	57.3	59.6	56.1	56.1
52.5°	1754.2	1264.9	58.4	53.9	51.6	52.7	51.6	51.6	49.3	44.7	44.7
55°	1802.3	1234.0	47.0	49.3	49.3	49.3	47.0	43.5	39.0	35.5	35.5
57.5°	1814.9	1181.3	36.7	41.2	44.7	44.7	40.1	35.5	29.8	26.4	25.2
60°	1795.4	1066.7	27.5	29.8	34.4	35.5	32.1	26.4	20.6	17.2	17.2
62.5°	1725.5	976.2	21.8	19.5	25.2	26.4	22.9	17.2	11.5	8.0	6.9
65°	1592.6	836.4	16.0	13.7	17.2	18.3	14.9	8.0	3.4	1.1	0.0
67.5°	1277.5	630.2	10.3	9.2	11.5	11.5	6.9	2.3	0.0	0.0	0.0
70°	706.9	354.0	6.9	4.6	5.7	3.4	1.1	0.0	0.0	0.0	0.0
72.5°	203.9	100.8	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	55.0	24.1	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.1	9.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	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)