

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: P676926

Luminaire Tested: **CCW-SA-2E-840-U-SL2-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676926  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-840-U-SL2-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SL2 distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

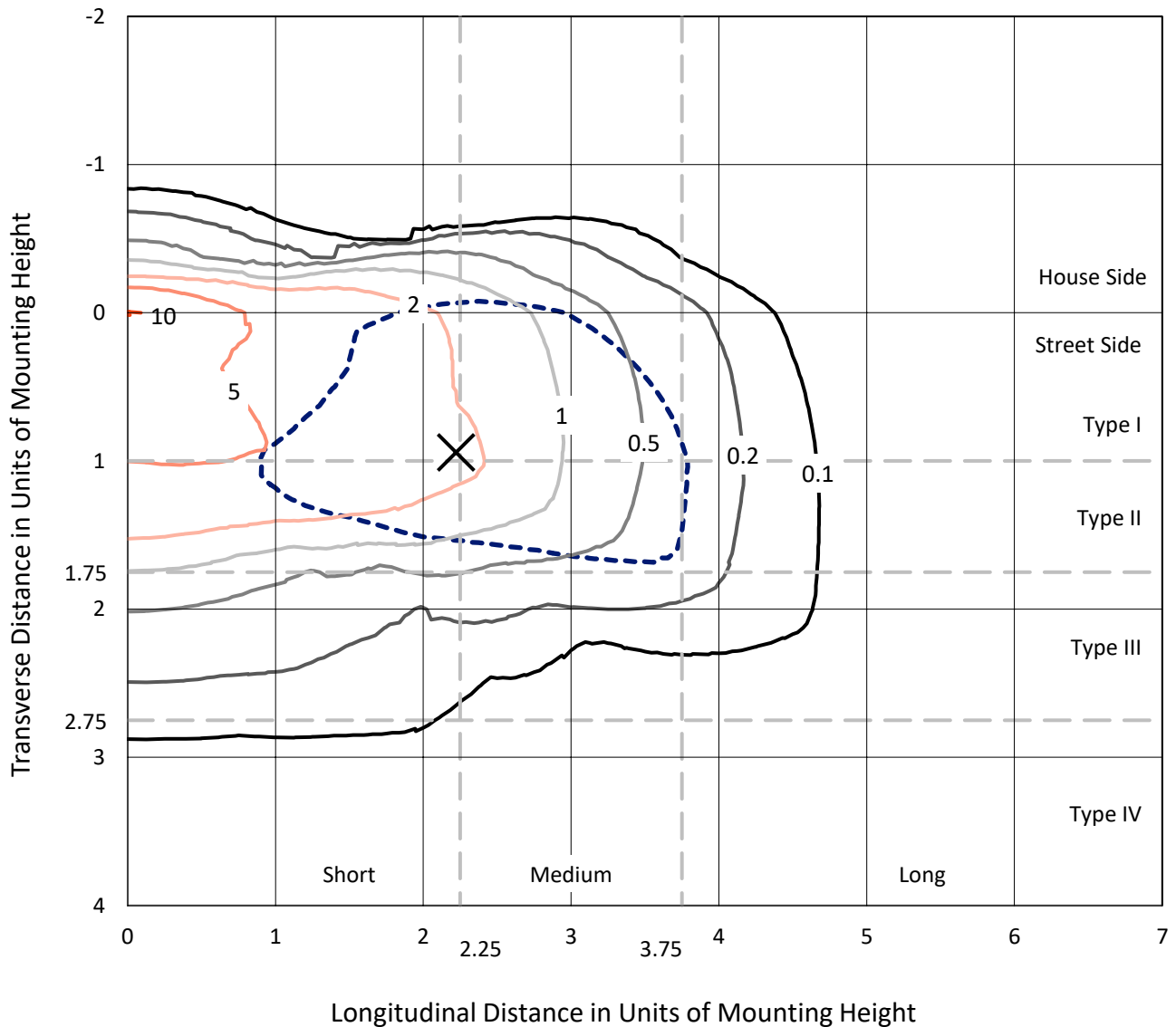
Lumens per Lamp: N/A  
Luminaire Lumens: 9374.6 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
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

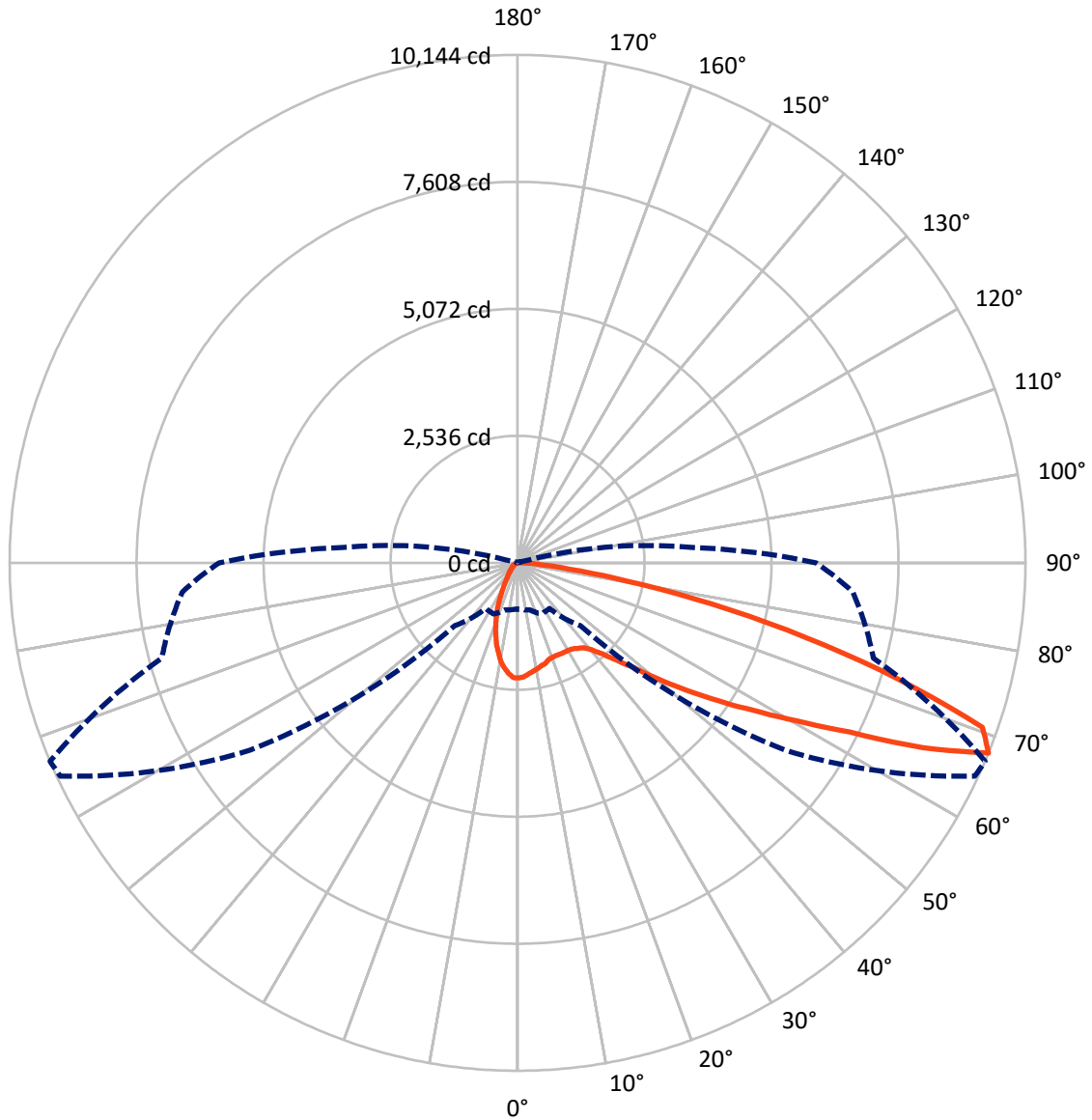
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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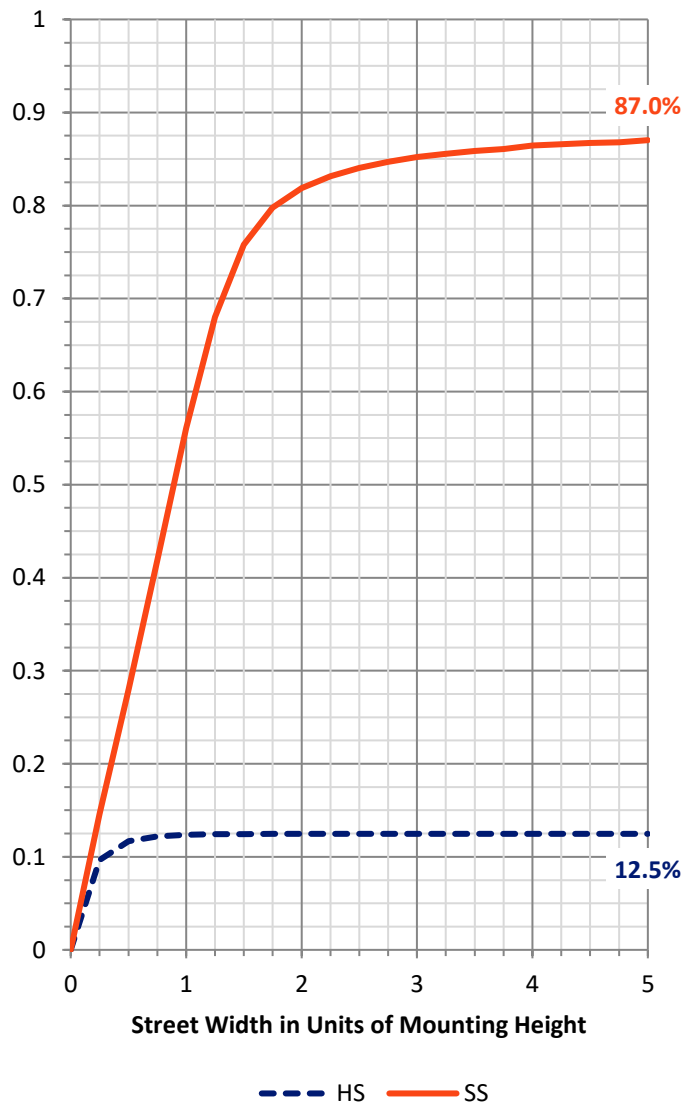
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1179.8	0.0	1179.8
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	8194.7	0.0	8194.7
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	9374.6	0.0	9374.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.7	2.1
10°-20°	430.4	4.6
20°-30°	612.0	6.5
30°-40°	891.1	9.5
40°-50°	1379.2	14.7
50°-60°	2116.7	22.6
60°-70°	2294.5	24.5
70°-80°	1294.4	13.8
80°-90°	162.6	1.7
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°	9374.6	100.0
0°-180°	9374.6	100.0

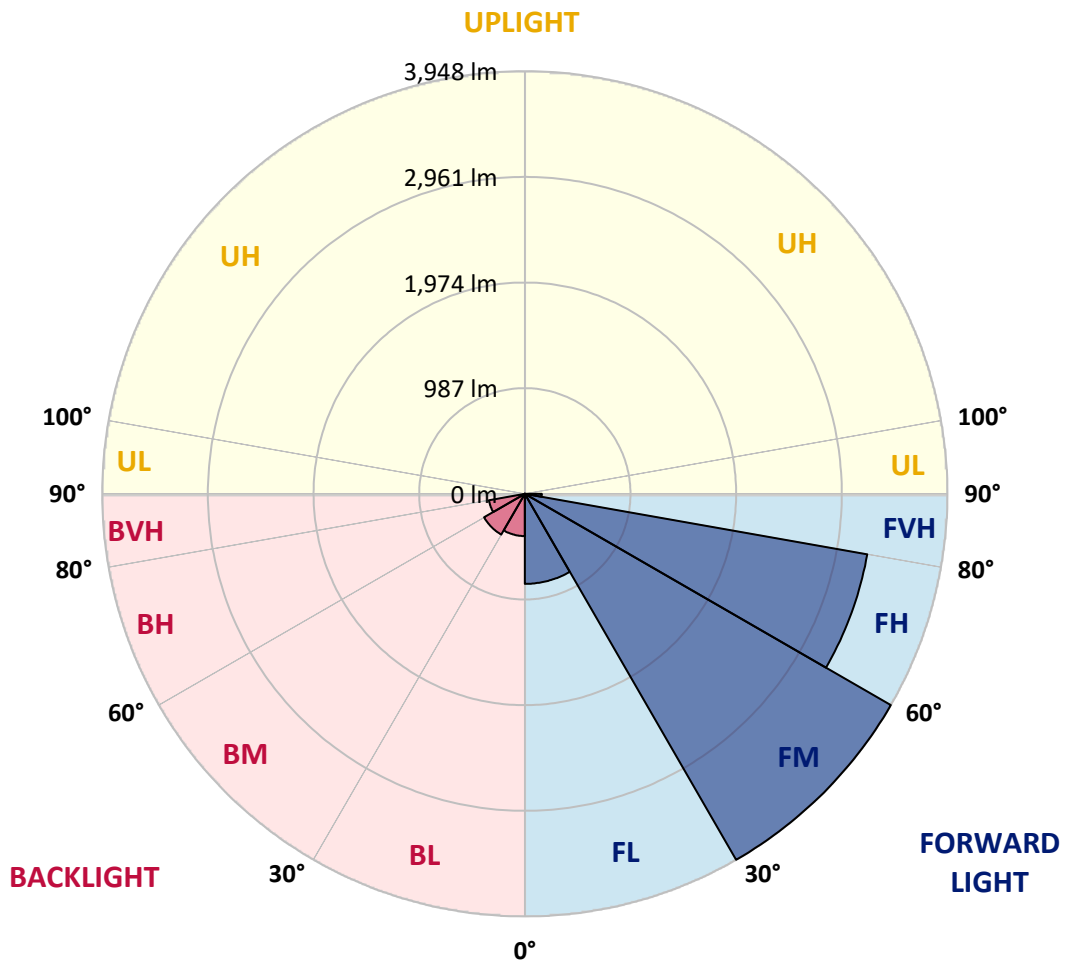


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.2	9.0			
FM (30°-60°)	3947.5	42.1			
FH (60°-80°)	3248.1	34.6			G2/5000
FVH (80°-90°)	158.0	1.7			G2/225
BL (0°-30°)	394.9	4.2	B1/500		
BM (30°-60°)	439.4	4.7	B1/1000		
BH (60°-80°)	340.8	3.6	B1/500		G1/500
BVH (80°-90°)	4.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4
2.5°	2200.0	2211.3	2227.1	2249.7	2265.5	2256.5	2263.3	2301.7	2281.3	2299.4	2290.4
5°	2078.1	2089.3	2111.9	2109.7	2127.7	2161.6	2206.8	2256.5	2233.9	2288.1	2308.4
7.5°	1951.6	1947.0	1947.0	1994.5	2032.9	2080.3	2105.2	2186.5	2188.7	2236.2	2285.9
10°	1836.4	1849.9	1872.5	1890.6	1926.7	1994.5	2066.8	2130.0	2154.9	2249.7	2263.3
12.5°	1766.3	1773.1	1800.2	1816.0	1863.5	1929.0	2005.8	2087.1	2107.4	2204.5	2270.0
15°	1737.0	1752.8	1761.8	1791.2	1816.0	1877.0	1933.5	2026.1	2084.8	2161.6	2242.9
17.5°	1759.6	1752.8	1757.3	1766.3	1795.7	1849.9	1910.9	2003.5	2023.8	2152.6	2274.6
20°	1788.9	1791.2	1777.6	1773.1	1766.3	1818.3	1868.0	1987.7	2010.3	2152.6	2294.9
22.5°	1868.0	1843.1	1868.0	1831.8	1795.7	1818.3	1865.7	1990.0	2005.8	2150.3	2315.2
25°	1965.1	1969.6	1976.4	1899.6	1847.7	1831.8	1881.5	1996.7	2010.3	2168.4	2324.3
27.5°	2102.9	2123.2	2089.3	2050.9	1947.0	1868.0	1879.3	1992.2	2017.1	2159.4	2346.8
30°	2288.1	2272.3	2276.8	2188.7	2087.1	1962.9	1931.2	2003.5	2021.6	2170.7	2389.8
32.5°	2448.5	2430.4	2462.0	2430.4	2270.0	2098.4	1992.2	2026.1	2046.4	2197.8	2425.9
35°	2547.9	2570.5	2620.2	2654.0	2518.5	2274.6	2093.9	2087.1	2096.1	2211.3	2453.0
37.5°	2701.5	2742.1	2782.8	2868.6	2751.2	2491.4	2254.2	2166.1	2150.3	2276.8	2466.6
40°	2868.6	2857.3	2977.0	3078.7	3074.2	2796.3	2477.9	2306.2	2283.6	2380.7	2556.9
42.5°	3008.7	2997.4	3130.6	3297.8	3315.8	3090.0	2733.1	2505.0	2484.6	2541.1	2667.6
45°	3191.6	3200.7	3358.8	3557.5	3623.0	3478.5	3078.7	2789.6	2778.3	2760.2	2877.7
47.5°	3354.2	3403.9	3539.5	3774.4	4011.5	3880.5	3485.3	3205.2	3126.1	3085.5	3202.9
50°	3467.2	3512.4	3677.2	3928.0	4361.7	4445.2	3941.5	3647.9	3650.1	3550.8	3614.0
52.5°	3467.2	3464.9	3598.2	3928.0	4605.6	5034.8	4551.4	4205.8	4223.9	4120.0	4124.5
55°	3132.9	3126.1	3288.7	3638.9	4578.5	5601.7	5475.2	4912.8	4867.6	4666.6	4686.9
57.5°	2523.0	2538.8	2663.1	3083.2	4226.1	5866.0	6575.2	5707.9	5554.3	5138.7	5138.7
60°	1840.9	1827.3	1919.9	2213.6	3385.9	5766.6	7478.7	6645.3	6403.6	5529.4	5470.7
62.5°	1400.4	1398.2	1423.0	1522.4	2148.1	5028.0	7867.2	7837.9	7444.8	5913.4	5829.8
65°	1131.6	1136.2	1170.0	1240.1	1312.3	3428.8	7661.7	9260.9	8901.7	6484.9	6211.6
67.5°	923.8	935.1	975.8	1127.1	1111.3	1775.4	6525.5	10076.3	10144.1	7356.8	6724.3
70°	711.5	729.6	777.0	991.6	1070.6	1181.3	4524.3	9669.7	9850.4	7898.9	6414.9
72.5°	483.4	481.1	582.8	804.1	1081.9	1081.9	2518.5	7788.2	7959.8	7282.2	5572.3
75°	262.0	277.8	386.2	607.6	991.6	1045.8	1434.3	5698.8	5940.5	5662.7	4309.7
77.5°	142.3	144.6	214.6	397.5	824.4	998.4	957.7	3876.0	3970.9	3415.2	2360.4
80°	74.5	76.8	112.9	259.8	569.2	926.1	797.3	2310.7	2220.4	1310.1	779.3
82.5°	33.9	36.1	56.5	162.6	363.7	729.6	688.9	1115.8	1030.0	365.9	237.2
85°	13.6	13.6	24.8	97.1	212.3	359.1	589.5	560.2	467.6	110.7	117.5
87.5°	4.5	4.5	6.8	38.4	85.8	214.6	314.0	295.9	203.3	40.7	63.2
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°	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4	2299.4
2.5°	2281.3	2306.2	2299.4	2294.9	2252.0	2247.5	2242.9	2202.3	2215.8	2182.0	2204.5
5°	2294.9	2308.4	2272.3	2204.5	2143.6	2075.8	2023.8	1987.7	1922.2	1897.4	1892.8
7.5°	2281.3	2281.3	2206.8	2098.4	1978.7	1868.0	1727.9	1628.6	1554.0	1497.6	1517.9
10°	2263.3	2236.2	2159.4	1967.4	1750.5	1583.4	1382.4	1235.5	1124.9	1088.7	1066.1
12.5°	2263.3	2215.8	2044.2	1782.2	1502.1	1249.1	1009.7	817.7	711.5	648.3	639.2
15°	2242.9	2172.9	1960.6	1608.2	1260.4	917.1	643.7	478.9	388.5	363.7	354.6
17.5°	2247.5	2163.9	1836.4	1402.7	978.0	609.9	393.0	302.7	280.1	268.8	271.1
20°	2256.5	2163.9	1725.7	1201.7	704.7	379.5	271.1	255.2	243.9	239.4	241.7
22.5°	2285.9	2121.0	1612.7	996.1	476.6	273.3	239.4	223.6	214.6	207.8	205.5
25°	2290.4	2114.2	1504.3	792.8	327.5	230.4	210.1	192.0	180.7	171.7	169.4
27.5°	2283.6	2084.8	1353.0	589.5	246.2	205.5	178.4	160.4	144.6	137.8	135.5
30°	2308.4	2030.6	1224.2	424.6	207.8	178.4	151.3	131.0	117.5	108.4	108.4
32.5°	2310.7	1983.2	1081.9	302.7	189.7	158.1	128.7	106.2	92.6	88.1	88.1
35°	2313.0	1940.3	923.8	230.4	169.4	135.5	106.2	88.1	79.1	72.3	72.3
37.5°	2319.7	1908.6	779.3	194.3	151.3	115.2	88.1	72.3	63.2	61.0	61.0
40°	2333.3	1865.7	627.9	171.7	131.0	97.1	74.5	61.0	52.0	49.7	47.4
42.5°	2369.4	1854.4	501.4	153.6	117.5	81.3	61.0	49.7	42.9	38.4	36.1
45°	2518.5	1883.8	388.5	142.3	99.4	67.8	52.0	40.7	31.6	29.4	27.1
47.5°	2762.5	1980.9	307.2	126.5	83.6	56.5	42.9	31.6	24.8	22.6	20.3
50°	3132.9	2202.3	250.7	112.9	70.0	47.4	33.9	24.8	18.1	15.8	15.8
52.5°	3618.5	2500.4	216.8	99.4	56.5	40.7	27.1	18.1	13.6	11.3	11.3
55°	4115.4	2852.8	203.3	85.8	47.4	33.9	20.3	13.6	9.0	6.8	6.8
57.5°	4571.7	3080.9	196.5	70.0	40.7	24.8	15.8	9.0	4.5	2.3	2.3
60°	4856.3	3248.1	176.2	56.5	31.6	20.3	11.3	4.5	2.3	0.0	0.0
62.5°	5231.3	3417.5	144.6	42.9	22.6	13.6	6.8	2.3	0.0	0.0	0.0
65°	5725.9	3607.2	112.9	33.9	18.1	9.0	4.5	2.3	0.0	0.0	0.0
67.5°	5963.1	3507.8	76.8	24.8	11.3	4.5	2.3	0.0	0.0	0.0	0.0
70°	5488.8	2954.4	54.2	18.1	6.8	2.3	2.3	0.0	0.0	0.0	0.0
72.5°	4614.6	2315.2	40.7	11.3	4.5	2.3	0.0	0.0	0.0	0.0	0.0
75°	3401.7	1447.9	31.6	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1804.7	539.8	22.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	533.1	158.1	15.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	176.2	47.4	9.0	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	90.4	18.1	4.5	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.0	6.8	4.5	4.5	2.3	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)