

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: P677069

Luminaire Tested: **CCW-SA-2D-840-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677069
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-840-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL3 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

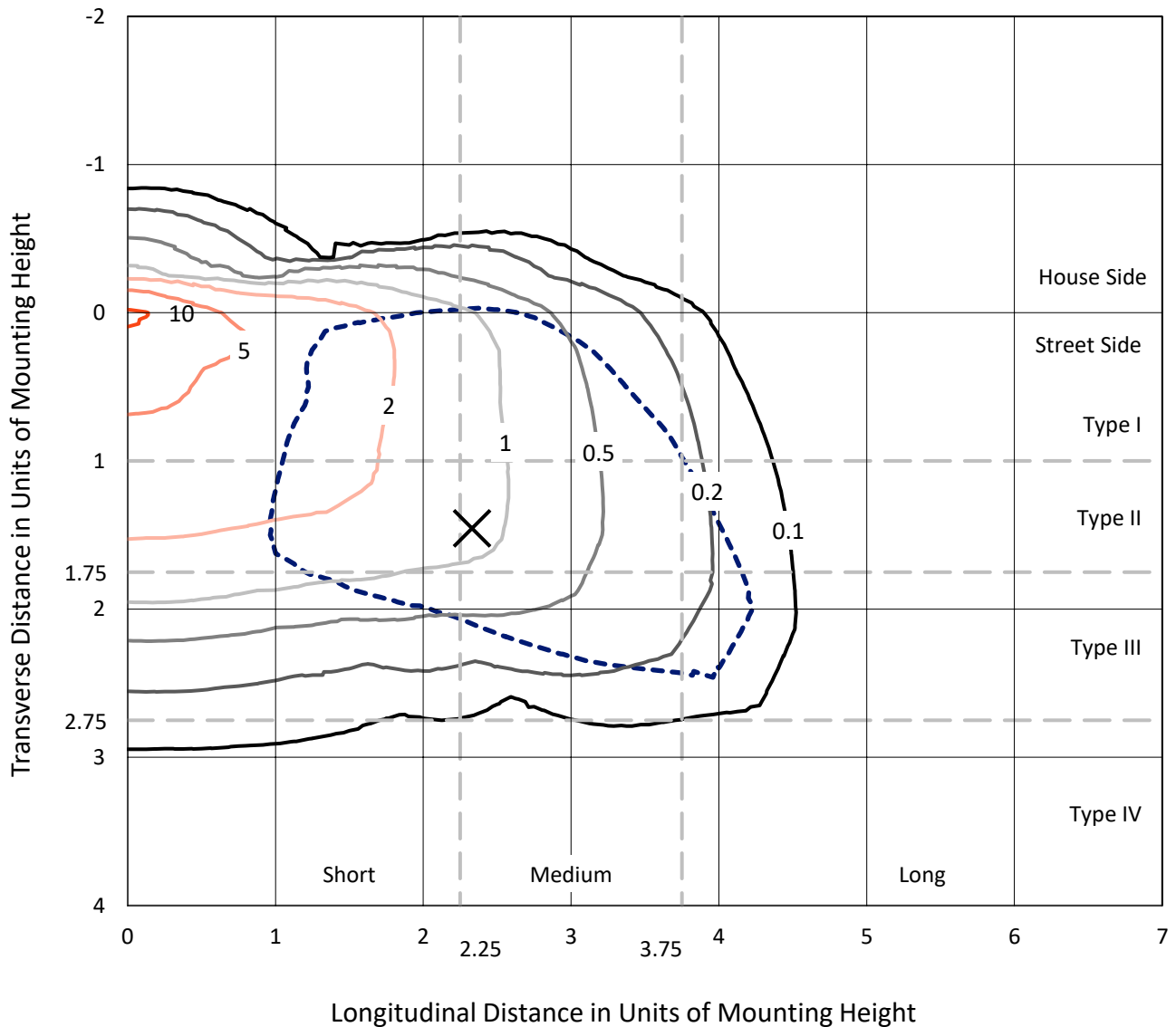
Lumens per Lamp: N/A
Luminaire Lumens: 7857.6 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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

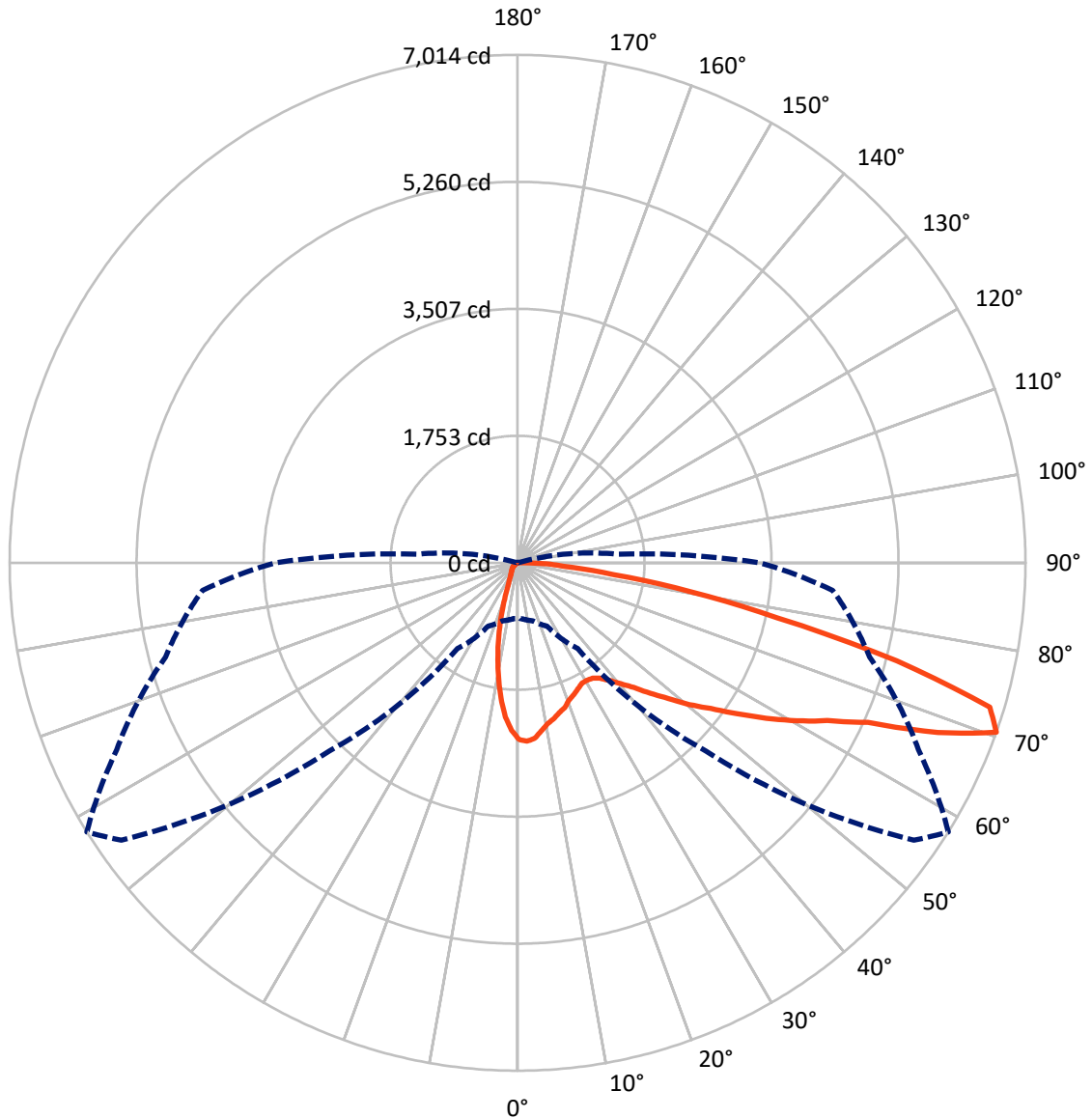
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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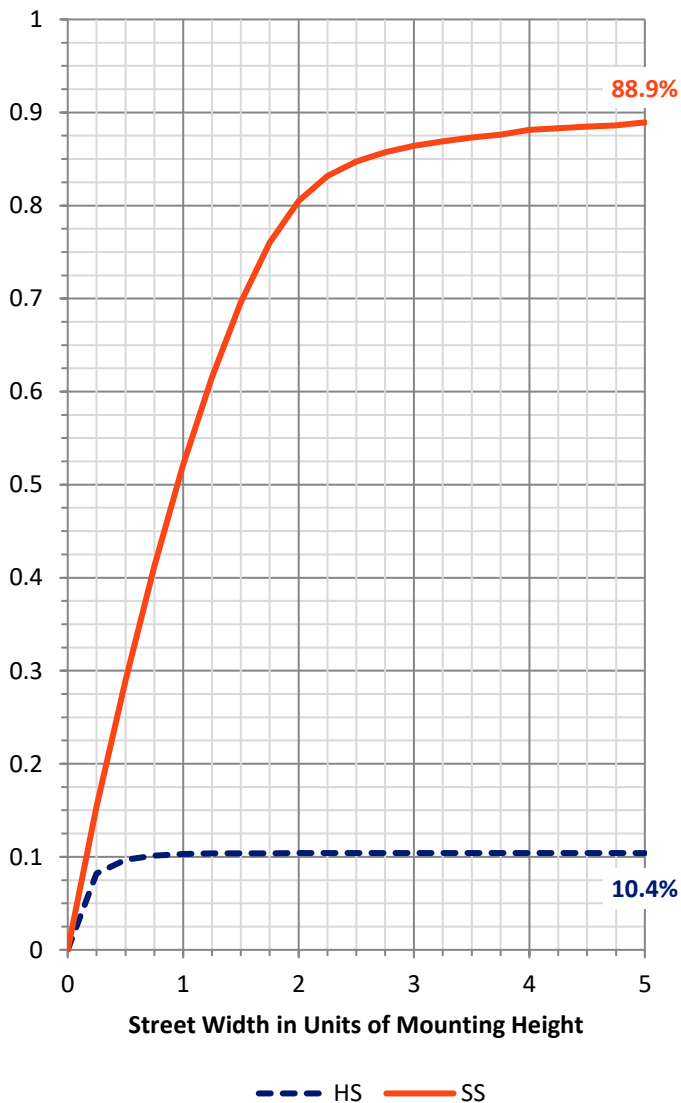
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.8	0.0	822.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7034.8	0.0	7034.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	7857.6	0.0	7857.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	2.5
10°-20°	414.4	5.3
20°-30°	554.8	7.1
30°-40°	750.0	9.5
40°-50°	1076.4	13.7
50°-60°	1586.2	20.2
60°-70°	1934.8	24.6
70°-80°	1181.5	15.0
80°-90°	160.5	2.0
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°	7857.6	100.0
0°-180°	7857.6	100.0

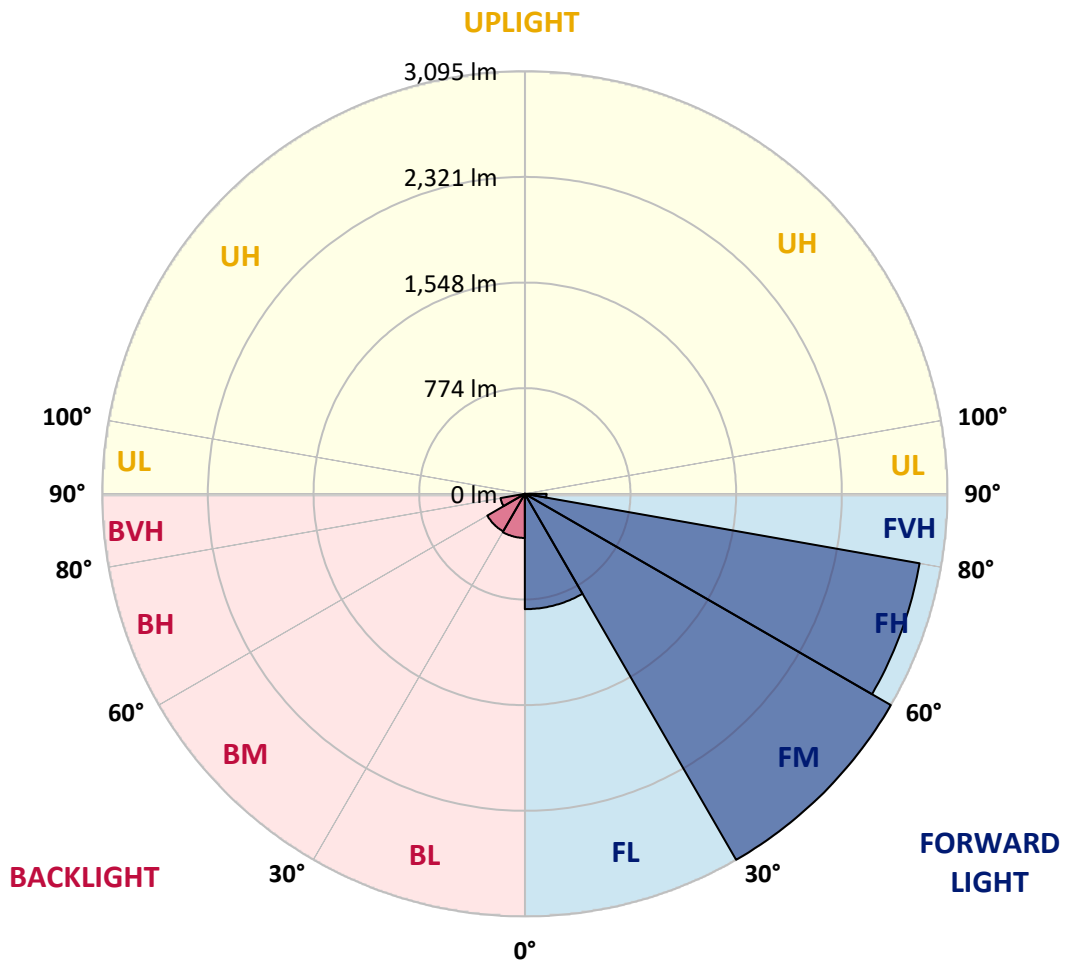


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.8	10.8			
FM (30°-60°)	3095.0	39.4			
FH (60°-80°)	2936.0	37.4			G2/5000
FVH (80°-90°)	159.0	2.0			G2/225
BL (0°-30°)	323.4	4.1	B1/500		
BM (30°-60°)	317.6	4.0	B1/1000		
BH (60°-80°)	180.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2
2.5°	2483.5	2492.7	2470.6	2496.4	2472.4	2483.5	2470.6	2466.9	2468.7	2470.6	2455.8
5°	2367.4	2389.5	2398.7	2384.0	2419.0	2413.4	2435.6	2437.4	2428.2	2419.0	2420.8
7.5°	2214.5	2236.6	2245.8	2255.0	2290.0	2336.1	2365.5	2347.1	2361.9	2395.0	2345.3
10°	2103.9	2098.4	2096.6	2115.0	2181.3	2220.0	2269.7	2264.2	2301.1	2332.4	2291.9
12.5°	1967.6	1956.5	1989.7	2004.5	2063.4	2131.6	2170.3	2210.8	2247.6	2280.8	2234.7
15°	1866.3	1875.5	1888.4	1919.7	1962.1	2052.4	2109.5	2148.2	2214.5	2231.1	2212.6
17.5°	1785.2	1792.6	1811.0	1827.6	1881.0	1967.6	2057.9	2103.9	2173.9	2218.2	2161.0
20°	1787.1	1764.9	1764.9	1781.5	1811.0	1914.2	2010.0	2024.7	2120.5	2196.1	2157.4
22.5°	1788.9	1781.5	1764.9	1763.1	1776.0	1849.7	1947.3	1980.5	2083.7	2172.1	2126.0
25°	1814.7	1787.1	1788.9	1763.1	1768.6	1805.5	1882.9	1932.6	2050.5	2185.0	2109.5
27.5°	1836.8	1849.7	1823.9	1812.8	1781.5	1779.7	1844.2	1886.5	2033.9	2214.5	2120.5
30°	1886.5	1895.8	1895.8	1888.4	1858.9	1816.5	1831.3	1884.7	2000.8	2208.9	2102.1
32.5°	1969.4	1952.9	1975.0	1963.9	1925.2	1858.9	1871.8	1899.4	2021.0	2279.0	2131.6
35°	1997.1	2010.0	2039.5	2015.5	2002.6	1963.9	1938.1	1958.4	2050.5	2349.0	2175.8
37.5°	2081.8	2063.4	2083.7	2137.1	2150.0	2080.0	2030.2	2059.7	2161.0	2431.9	2216.3
40°	2089.2	2103.9	2140.8	2245.8	2258.7	2229.2	2188.7	2196.1	2271.6	2538.7	2317.6
42.5°	2126.0	2142.6	2218.2	2306.6	2376.6	2382.1	2352.6	2352.6	2417.1	2710.1	2430.0
45°	2197.9	2170.3	2267.9	2417.1	2518.5	2538.7	2577.4	2568.2	2619.8	2890.6	2640.1
47.5°	2225.5	2234.7	2341.6	2522.1	2638.2	2732.2	2796.7	2798.5	2824.3	3120.9	2912.7
50°	2315.8	2314.0	2442.9	2610.6	2781.9	2953.2	3078.5	3078.5	3076.7	3345.7	3146.7
52.5°	2435.6	2431.9	2531.4	2730.3	2953.2	3168.8	3334.6	3340.1	3382.5	3622.0	3415.7
55°	2630.8	2614.3	2710.1	2857.4	3124.6	3386.2	3673.6	3675.4	3642.3	3819.1	3609.1
57.5°	2794.8	2793.0	2872.2	3014.0	3316.2	3666.2	3999.7	4049.4	3944.4	4021.8	3763.9
60°	2752.4	2776.4	2940.4	3150.4	3518.8	4016.3	4351.6	4429.0	4261.3	4160.0	3879.9
62.5°	2489.0	2544.3	2723.0	3058.3	3690.2	4524.8	4836.1	4801.1	4427.1	4277.9	4021.8
65°	1790.7	1846.0	2067.1	2570.0	3491.2	4884.0	5473.5	5315.1	4721.9	4452.9	4211.6
67.5°	1053.8	1075.9	1214.1	1639.7	2610.6	4688.7	6247.3	6260.2	5302.2	4721.9	4539.5
70°	760.9	777.5	830.9	967.2	1446.2	3675.4	6678.4	7013.7	6107.3	5031.4	4366.3
72.5°	584.0	584.0	674.3	805.1	921.2	2201.6	6146.0	6818.4	6282.3	4734.8	3518.8
75°	420.1	431.1	528.7	692.7	849.3	1105.4	4528.4	5410.9	5324.3	3837.6	2457.7
77.5°	241.3	246.9	372.1	580.3	797.7	759.0	2798.5	3668.1	3771.2	2402.4	1064.9
80°	123.4	127.1	208.2	458.7	722.2	661.4	1669.1	2415.3	2048.7	698.2	246.9
82.5°	60.8	60.8	94.0	292.9	613.5	585.9	982.0	1333.8	725.9	160.3	103.2
85°	20.3	22.1	42.4	165.8	444.0	353.7	600.6	633.8	243.2	60.8	57.1
87.5°	5.5	7.4	11.1	60.8	193.4	232.1	357.4	405.3	99.5	24.0	27.6
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°	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2	2439.2
2.5°	2400.6	2387.7	2372.9	2336.1	2306.6	2267.9	2242.1	2221.8	2183.2	2190.5	2173.9
5°	2376.6	2352.6	2267.9	2186.8	2113.1	2000.8	1923.4	1873.6	1833.1	1792.6	1822.1
7.5°	2334.2	2277.1	2144.5	1993.4	1836.8	1689.4	1542.0	1453.6	1389.1	1330.2	1328.3
10°	2262.4	2170.3	1962.1	1764.9	1523.6	1330.2	1142.2	994.9	899.1	829.0	827.2
12.5°	2181.3	2085.5	1823.9	1503.3	1225.1	952.5	727.7	571.1	480.8	425.6	418.2
15°	2129.7	1989.7	1650.7	1271.2	926.7	620.9	403.5	305.8	270.8	257.9	257.9
17.5°	2063.4	1903.1	1479.4	1029.9	643.0	359.3	261.6	235.8	234.0	230.3	226.6
20°	2035.8	1836.8	1326.5	821.7	407.2	254.2	224.8	219.2	219.2	215.6	211.9
22.5°	1962.1	1741.0	1164.3	602.4	270.8	222.9	211.9	204.5	200.8	197.1	200.8
25°	1928.9	1672.8	1011.4	416.4	221.1	199.0	193.4	186.1	180.5	178.7	178.7
27.5°	1906.8	1604.7	862.2	289.2	195.3	182.4	171.3	165.8	158.4	151.1	151.1
30°	1890.2	1551.2	718.5	213.7	175.0	162.1	152.9	140.0	130.8	123.4	123.4
32.5°	1868.1	1488.6	574.8	182.4	158.4	145.5	129.0	117.9	105.0	99.5	99.5
35°	1875.5	1446.2	451.4	162.1	141.9	125.3	110.5	95.8	82.9	77.4	75.5
37.5°	1890.2	1414.9	342.7	145.5	127.1	108.7	92.1	75.5	68.2	60.8	60.8
40°	1952.9	1405.7	252.4	134.5	116.1	95.8	77.4	62.6	55.3	49.7	47.9
42.5°	2057.9	1418.6	195.3	121.6	105.0	81.1	64.5	51.6	44.2	38.7	36.8
45°	2192.4	1468.3	160.3	114.2	92.1	68.2	51.6	42.4	33.2	29.5	29.5
47.5°	2387.7	1545.7	140.0	105.0	81.1	57.1	44.2	33.2	25.8	22.1	22.1
50°	2608.7	1634.1	123.4	94.0	70.0	47.9	35.0	25.8	18.4	16.6	16.6
52.5°	2829.8	1746.5	114.2	86.6	60.8	38.7	27.6	18.4	12.9	11.1	11.1
55°	3061.9	1846.0	103.2	81.1	49.7	31.3	20.3	11.1	7.4	5.5	5.5
57.5°	3224.1	1884.7	90.3	70.0	38.7	24.0	14.7	7.4	3.7	1.8	1.8
60°	3340.1	1890.2	77.4	57.1	29.5	18.4	9.2	3.7	1.8	0.0	0.0
62.5°	3437.8	1901.3	66.3	44.2	22.1	12.9	5.5	1.8	0.0	0.0	0.0
65°	3631.2	1892.1	53.4	35.0	14.7	7.4	3.7	0.0	0.0	0.0	0.0
67.5°	3784.1	1800.0	42.4	24.0	9.2	3.7	1.8	0.0	0.0	0.0	0.0
70°	3347.5	1372.5	33.2	16.6	5.5	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	2629.0	915.6	22.1	9.2	3.7	1.8	0.0	0.0	0.0	0.0	0.0
75°	1724.4	455.1	16.6	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	670.6	119.8	11.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	162.1	40.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	70.0	14.7	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.4	7.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	3.7	1.8	1.8	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)