

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: P677147

Luminaire Tested: **CCW-SA-2D-740-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677147
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-740-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

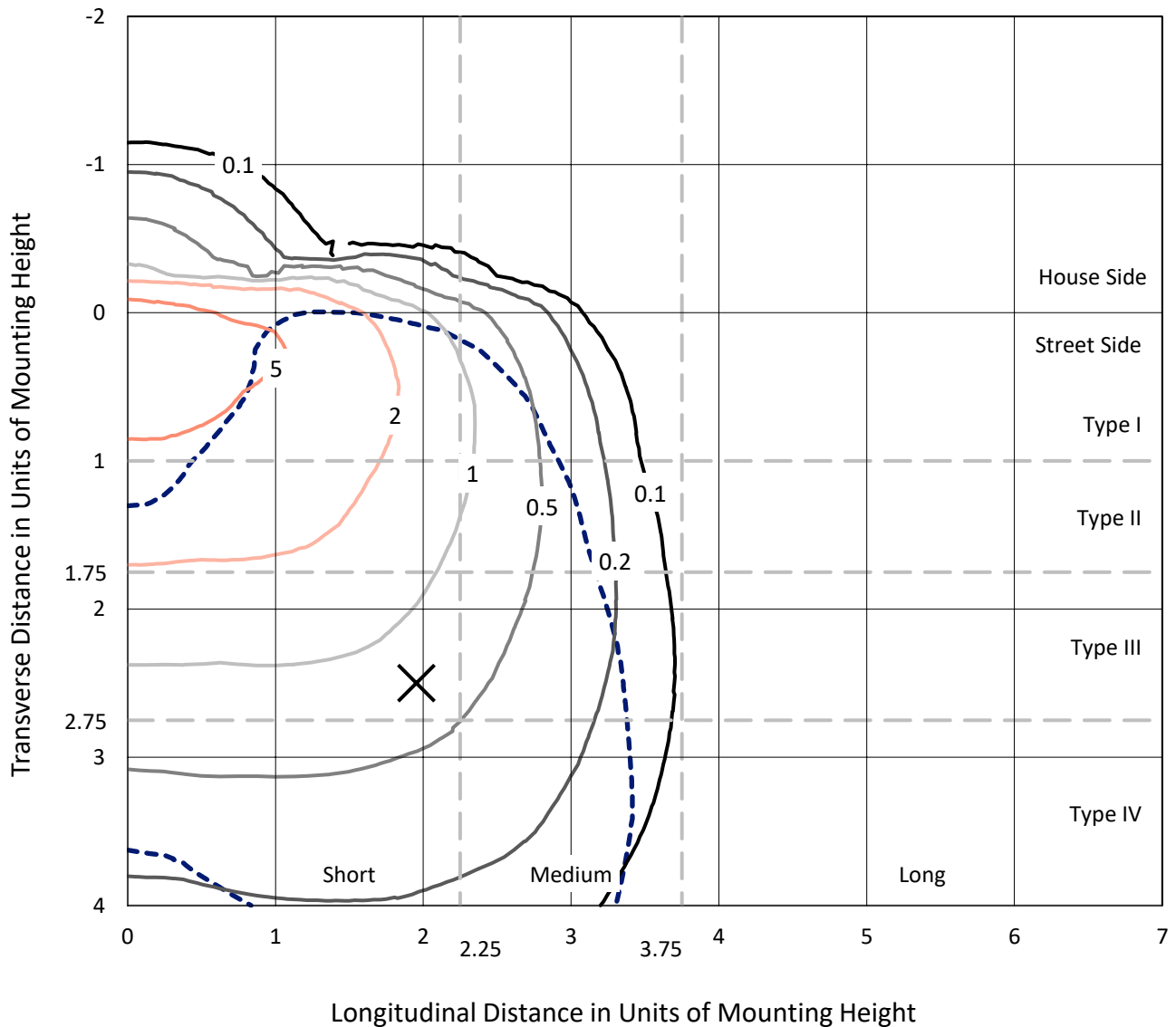
Lumens per Lamp: N/A
Luminaire Lumens: 9212.5 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P677147
 CATALOG NUMBER: CCW-SA-2D-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

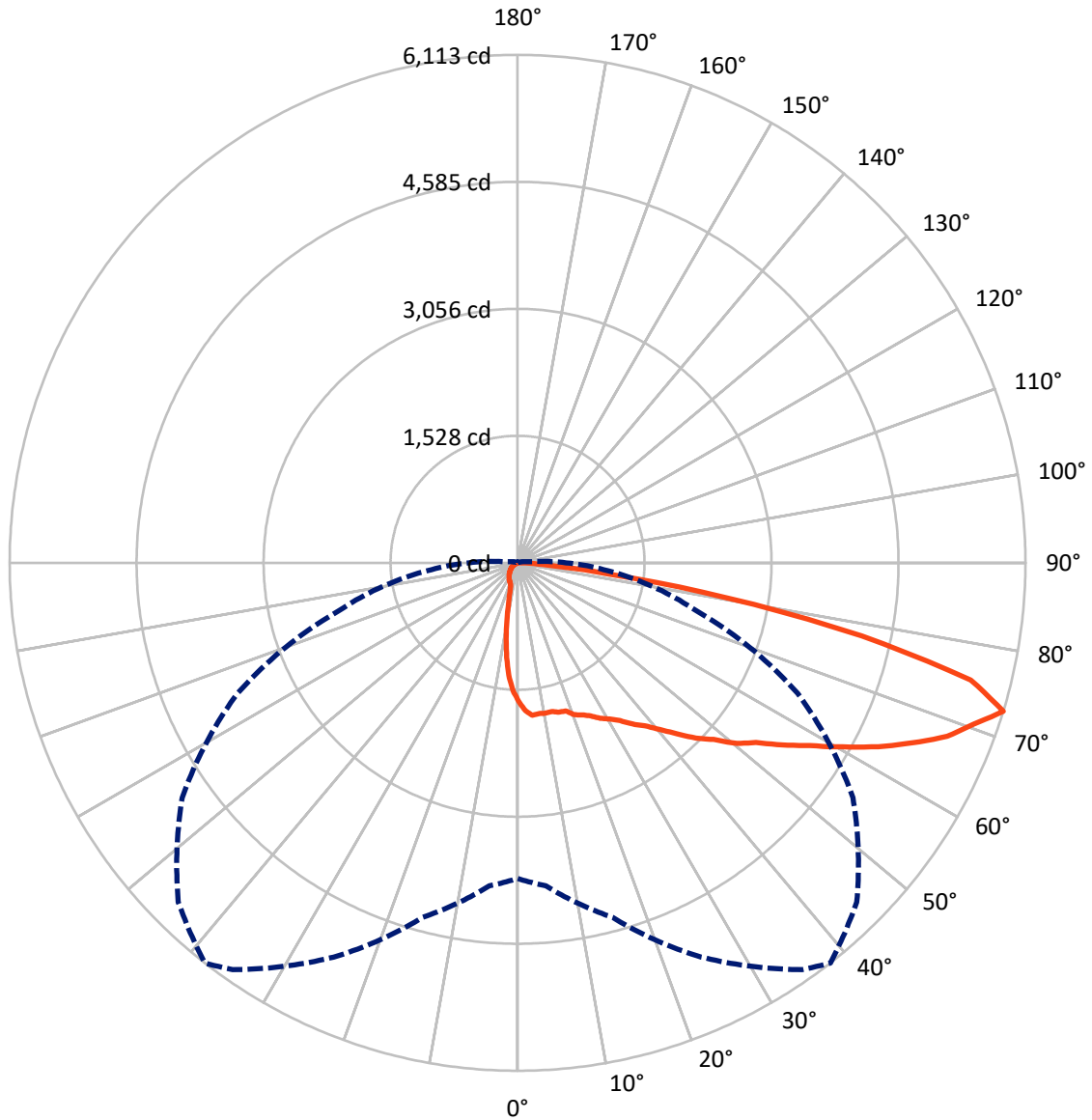
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P677147
CATALOG NUMBER: CCW-SA-2D-740-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P677147
 CATALOG NUMBER: CCW-SA-2D-740-U-SL4-HSS

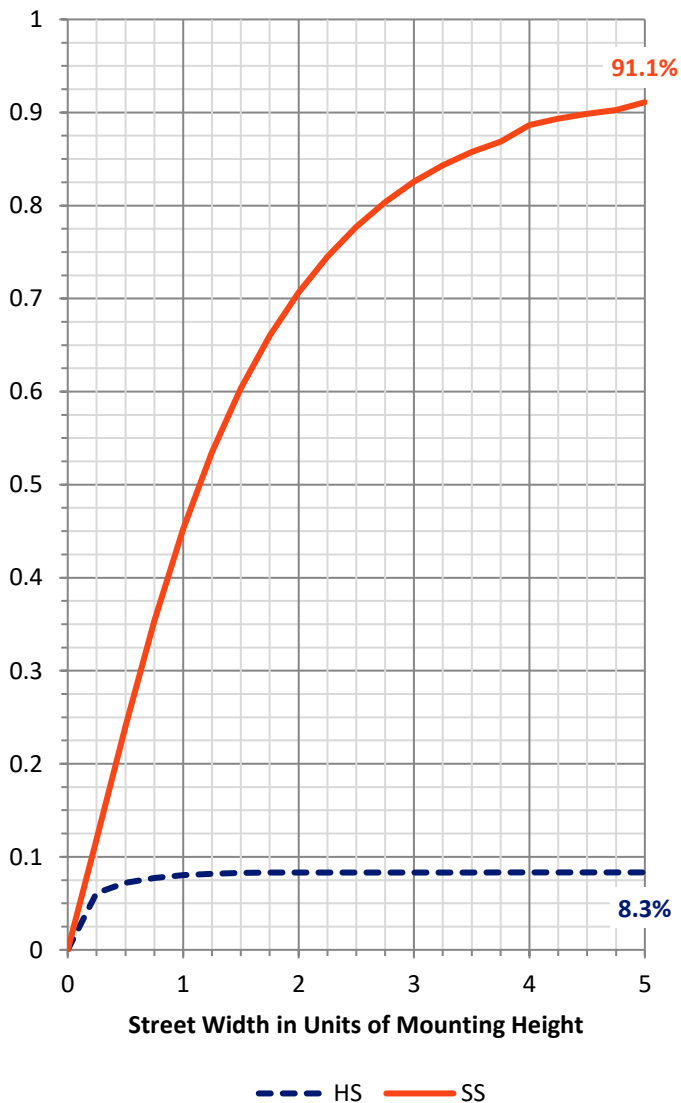
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	771.6	0.0	771.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8440.9	0.0	8440.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	9212.5	0.0	9212.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	1.6
10°-20°	357.0	3.9
20°-30°	572.4	6.2
30°-40°	864.1	9.4
40°-50°	1315.2	14.3
50°-60°	1851.6	20.1
60°-70°	2261.8	24.6
70°-80°	1642.3	17.8
80°-90°	202.3	2.2
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°	9212.5	100.0
0°-180°	9212.5	100.0

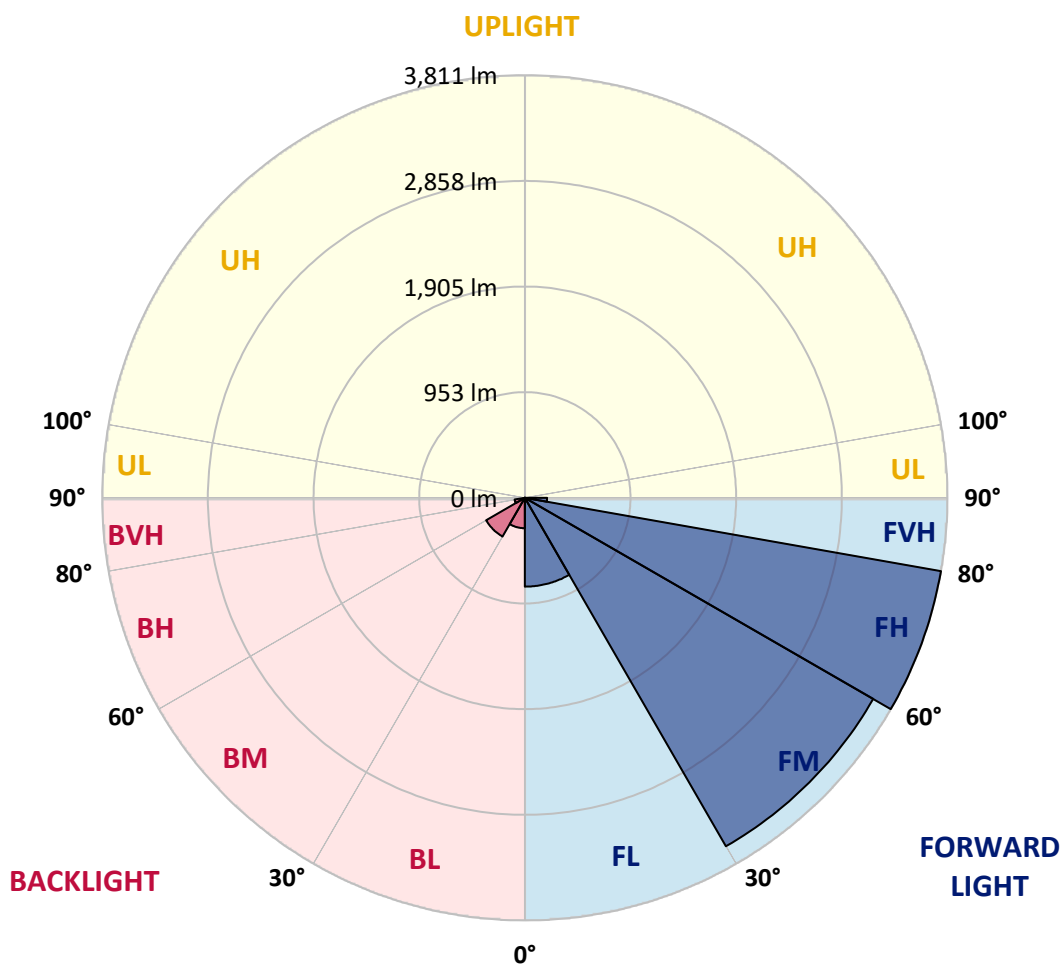


REPORT NUMBER: P677147
 CATALOG NUMBER: CCW-SA-2D-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.3	8.7			
FM (30°-60°)	3627.9	39.4			
FH (60°-80°)	3810.5	41.4			G2/5000
FVH (80°-90°)	201.2	2.2			G2/225
BL (0°-30°)	273.9	3.0	B1/500		
BM (30°-60°)	403.0	4.4	B1/1000		
BH (60°-80°)	93.6	1.0	B0/110		G0/110
BVH (80°-90°)	1.0	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





REPORT NUMBER: P677147

CATALOG NUMBER: CCW-SA-2D-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0
2.5°	1830.2	1830.2	1847.5	1830.2	1823.7	1782.7	1784.8	1763.2	1741.6	1711.4	1683.3
5°	1851.8	1866.9	1877.7	1862.6	1838.8	1843.2	1858.3	1817.2	1758.9	1722.2	1659.5
7.5°	1843.2	1875.6	1866.9	1858.3	1843.2	1832.4	1810.8	1793.5	1765.4	1730.8	1657.3
10°	1836.7	1847.5	1849.6	1843.2	1810.8	1841.0	1817.2	1789.1	1754.6	1713.5	1622.8
12.5°	1812.9	1812.9	1832.4	1817.2	1821.6	1836.7	1825.9	1819.4	1782.7	1748.1	1668.1
15°	1787.0	1795.6	1825.9	1849.6	1871.3	1864.8	1858.3	1838.8	1806.4	1767.5	1683.3
17.5°	1793.5	1797.8	1845.3	1888.5	1877.7	1873.4	1908.0	1866.9	1834.5	1791.3	1696.2
20°	1817.2	1830.2	1884.2	1940.4	1951.2	1951.2	1938.2	1914.5	1869.1	1810.8	1720.0
22.5°	1841.0	1845.3	1933.9	2005.2	2016.0	1987.9	1998.7	1929.6	1886.4	1854.0	1743.8
25°	1931.8	1923.1	2018.2	2074.4	2067.9	2039.8	2029.0	1968.5	1951.2	1892.9	1795.6
27.5°	2054.9	2018.2	2111.1	2145.7	2111.1	2119.7	2089.5	2024.7	1987.9	1953.4	1819.4
30°	2130.6	2152.2	2201.9	2236.4	2178.1	2180.2	2165.1	2093.8	2037.6	2046.3	1899.3
32.5°	2247.2	2262.4	2299.1	2314.2	2268.8	2264.5	2249.4	2193.2	2152.2	2143.5	2007.4
35°	2372.6	2400.7	2402.8	2407.1	2366.1	2383.4	2361.8	2281.8	2303.4	2318.5	2137.0
37.5°	2495.7	2469.8	2513.0	2532.5	2487.1	2487.1	2493.6	2439.5	2478.4	2523.8	2320.7
40°	2543.3	2554.1	2629.7	2614.6	2668.6	2636.2	2659.9	2647.0	2679.4	2783.1	2580.0
42.5°	2593.0	2605.9	2707.5	2735.6	2800.4	2811.2	2845.8	2847.9	2943.0	3113.7	2828.5
45°	2688.0	2666.4	2804.7	2873.9	2979.7	3010.0	3051.1	3085.6	3234.7	3435.7	3111.6
47.5°	2774.5	2744.2	2902.0	3040.2	3169.9	3176.4	3288.7	3325.5	3502.7	3731.7	3392.5
50°	2895.5	2906.3	2973.3	3211.0	3342.8	3418.4	3496.2	3617.2	3813.8	4058.0	3595.6
52.5°	3020.8	3010.0	3122.4	3355.7	3563.2	3591.3	3766.3	3902.4	4116.3	4300.0	3686.3
55°	3174.2	3187.2	3230.4	3537.2	3800.9	3867.8	4064.5	4207.1	4440.4	4403.7	3716.6
57.5°	3327.6	3314.7	3411.9	3740.3	4099.0	4148.7	4410.2	4494.5	4652.2	4472.9	3641.0
60°	3478.9	3502.7	3543.7	3969.4	4425.3	4498.8	4706.2	4749.4	4784.0	4505.3	3582.6
62.5°	3651.8	3595.6	3723.1	4211.4	4719.2	4872.6	5036.8	4866.1	4835.9	4446.9	3448.6
65°	3738.2	3755.5	3921.9	4488.0	5110.3	5222.7	5244.3	5023.9	4868.3	4317.3	3323.3
67.5°	3872.2	3895.9	4107.7	4771.1	5512.2	5574.9	5497.1	5166.5	4840.2	4148.7	2871.7
70°	3889.4	3947.8	4356.2	5067.1	5765.0	5819.0	5758.5	5261.6	4613.3	3485.4	2126.2
72.5°	3798.7	3902.4	4416.7	5235.6	5976.8	6112.9	5773.7	4926.6	3718.7	2223.5	1089.0
75°	2869.5	2956.0	4042.9	4985.0	5600.8	5633.2	5069.2	3759.8	2117.6	758.4	278.7
77.5°	1486.6	1635.7	2698.8	3809.5	4267.6	4233.0	3528.6	2214.8	728.2	198.8	112.4
80°	853.5	890.3	1179.8	2139.2	2683.7	2551.9	1951.2	955.1	319.8	99.4	73.5
82.5°	421.4	473.2	635.3	957.2	1341.9	1104.2	732.5	572.6	179.3	54.0	64.8
85°	90.8	95.1	324.1	458.1	544.5	358.7	250.7	481.9	64.8	32.4	62.7
87.5°	64.8	62.7	90.8	205.3	151.3	92.9	149.1	252.8	15.1	15.1	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677147

CATALOG NUMBER: CCW-SA-2D-740-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0
2.5°	1666.0	1646.5	1624.9	1583.9	1573.1	1566.6	1529.8	1527.7	1521.2	1506.1	1499.6
5°	1620.6	1588.2	1547.1	1503.9	1469.3	1406.7	1331.1	1292.2	1244.6	1246.8	1231.7
7.5°	1614.1	1553.6	1495.3	1404.5	1294.3	1177.6	1061.0	985.3	931.3	898.9	905.4
10°	1583.9	1538.5	1443.4	1274.9	1097.7	920.5	771.4	659.0	594.2	544.5	559.6
12.5°	1596.8	1508.2	1374.3	1149.5	896.7	678.5	492.7	384.6	337.1	319.8	324.1
15°	1588.2	1508.2	1333.2	1013.4	704.4	460.3	319.8	285.2	276.6	276.6	272.3
17.5°	1614.1	1525.5	1264.1	879.4	505.6	306.8	274.4	267.9	261.5	261.5	261.5
20°	1650.9	1534.2	1216.5	730.4	356.5	270.1	257.1	252.8	250.7	250.7	248.5
22.5°	1653.0	1525.5	1127.9	566.1	274.4	255.0	244.2	242.0	242.0	237.7	237.7
25°	1666.0	1534.2	1032.9	425.7	255.0	239.8	231.2	229.0	231.2	229.0	226.9
27.5°	1698.4	1549.3	937.8	311.2	239.8	226.9	220.4	218.2	218.2	218.2	213.9
30°	1739.4	1549.3	831.9	257.1	226.9	213.9	207.4	205.3	203.1	203.1	203.1
32.5°	1825.9	1599.0	702.3	229.0	209.6	198.8	192.3	192.3	190.2	190.2	188.0
35°	1933.9	1633.6	570.5	211.8	194.5	183.7	177.2	177.2	175.0	175.0	172.9
37.5°	2067.9	1720.0	436.5	198.8	179.3	168.5	162.1	162.1	162.1	159.9	159.9
40°	2258.0	1808.6	324.1	181.5	164.2	153.4	149.1	146.9	144.8	144.8	140.5
42.5°	2461.2	1944.7	242.0	168.5	151.3	142.6	136.1	129.6	129.6	123.2	123.2
45°	2681.6	2063.6	196.6	153.4	138.3	127.5	121.0	116.7	110.2	105.9	105.9
47.5°	2897.6	2137.0	172.9	136.1	125.3	116.7	110.2	101.6	92.9	90.8	88.6
50°	3072.7	2158.6	153.4	123.2	114.5	105.9	97.2	86.4	77.8	73.5	71.3
52.5°	3072.7	2039.8	138.3	110.2	103.7	95.1	84.3	71.3	60.5	56.2	54.0
55°	3072.7	1851.8	123.2	101.6	92.9	86.4	71.3	58.3	47.5	41.1	38.9
57.5°	3027.3	1624.9	110.2	90.8	82.1	73.5	60.5	45.4	34.6	28.1	28.1
60°	2902.0	1387.2	95.1	79.9	71.3	60.5	47.5	32.4	21.6	15.1	15.1
62.5°	2742.1	1104.2	82.1	67.0	58.3	49.7	36.7	21.6	8.6	4.3	4.3
65°	2463.3	814.6	71.3	56.2	45.4	36.7	23.8	8.6	0.0	0.0	0.0
67.5°	2033.3	544.5	56.2	45.4	38.9	25.9	15.1	2.2	0.0	0.0	0.0
70°	1430.5	309.0	43.2	32.4	28.1	17.3	4.3	0.0	0.0	0.0	0.0
72.5°	587.7	136.1	30.3	23.8	19.4	8.6	0.0	0.0	0.0	0.0	0.0
75°	159.9	60.5	19.4	13.0	10.8	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	92.9	41.1	8.6	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.5	19.4	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	73.5	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	62.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	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)