

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: P676915

Luminaire Tested: **CCW-SA-2E-835-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676915
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

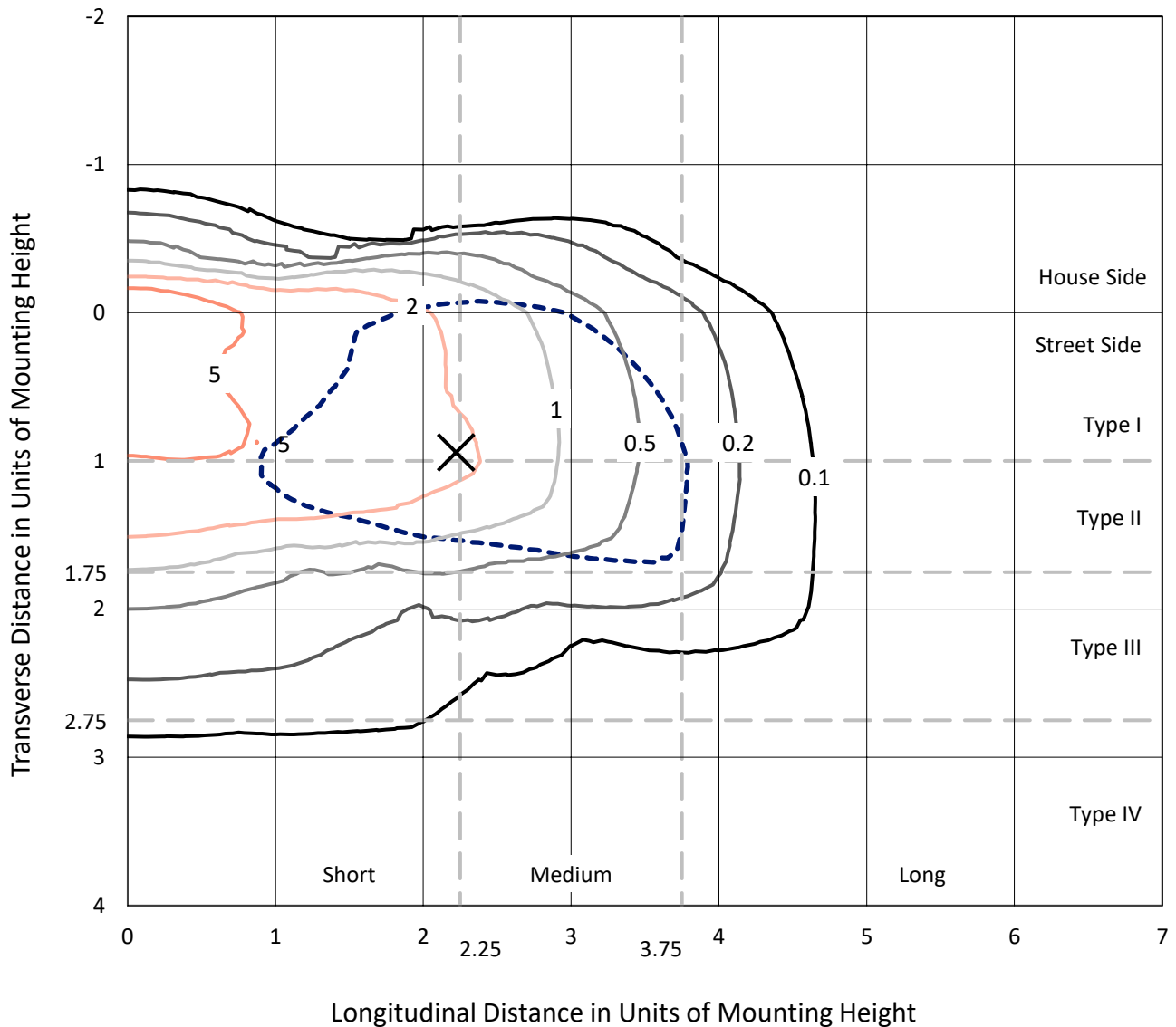
Lumens per Lamp: N/A
Luminaire Lumens: 9060.1 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{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

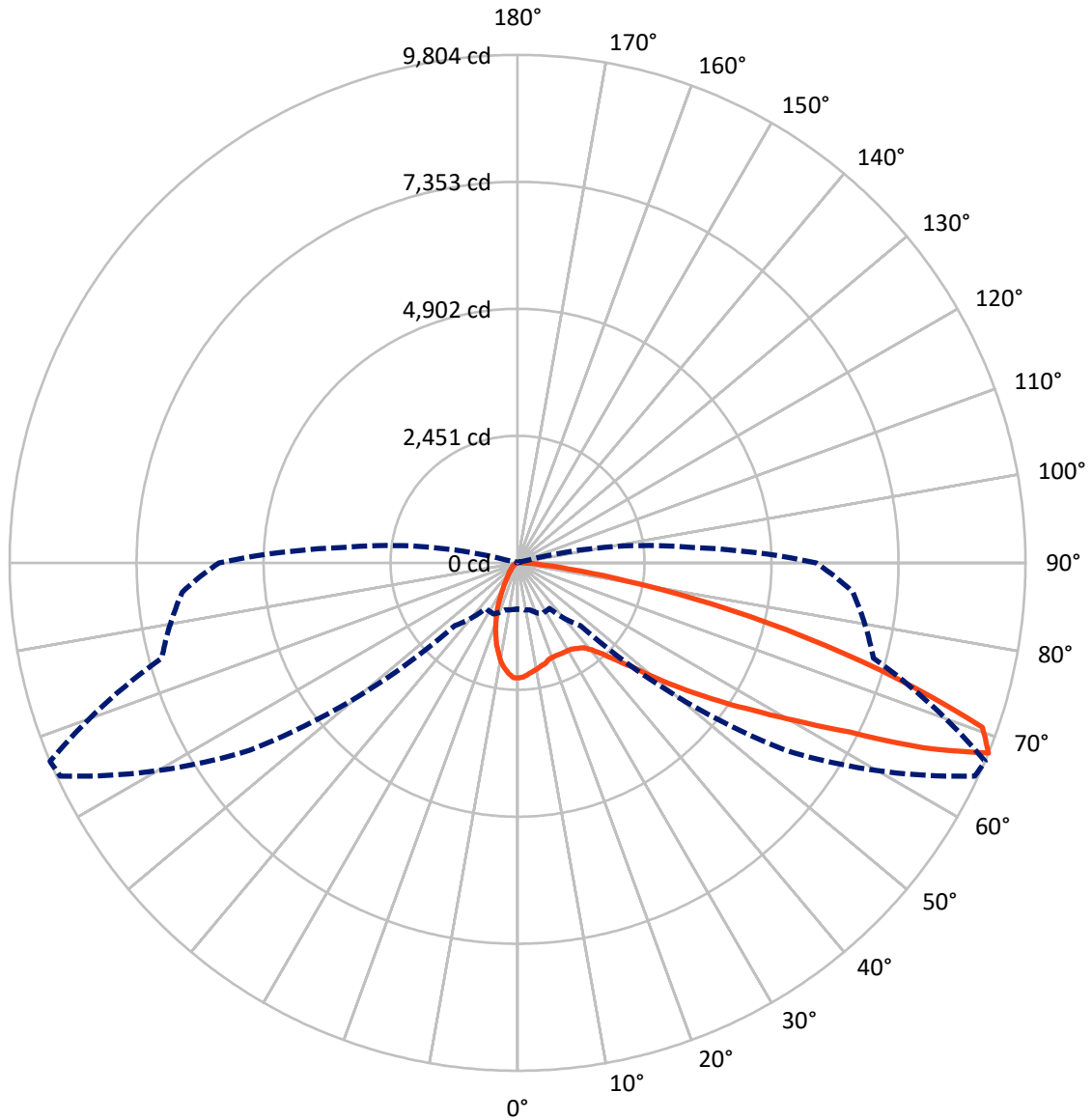
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.9 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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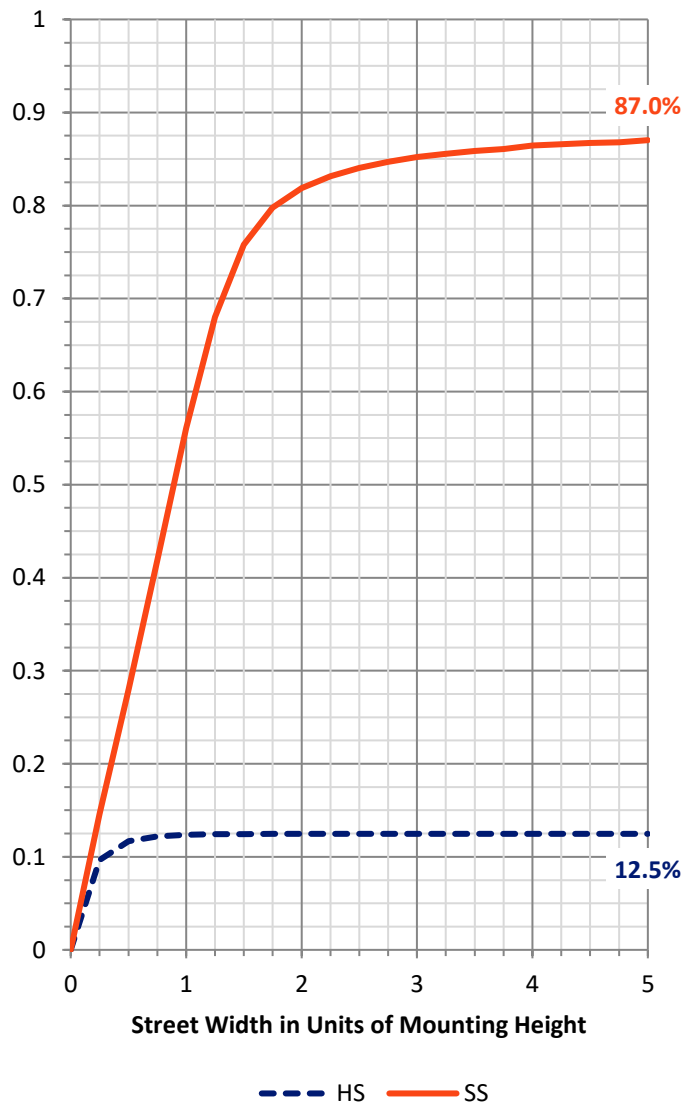
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1140.3	0.0	1140.3
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	7919.9	0.0	7919.9
	% Fixture	87.4	0.0	87.4
Total	Lumens	9060.1	0.0	9060.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.1
10°-20°	415.9	4.6
20°-30°	591.5	6.5
30°-40°	861.2	9.5
40°-50°	1332.9	14.7
50°-60°	2045.7	22.6
60°-70°	2217.5	24.5
70°-80°	1251.0	13.8
80°-90°	157.2	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°	9060.1	100.0
0°-180°	9060.1	100.0

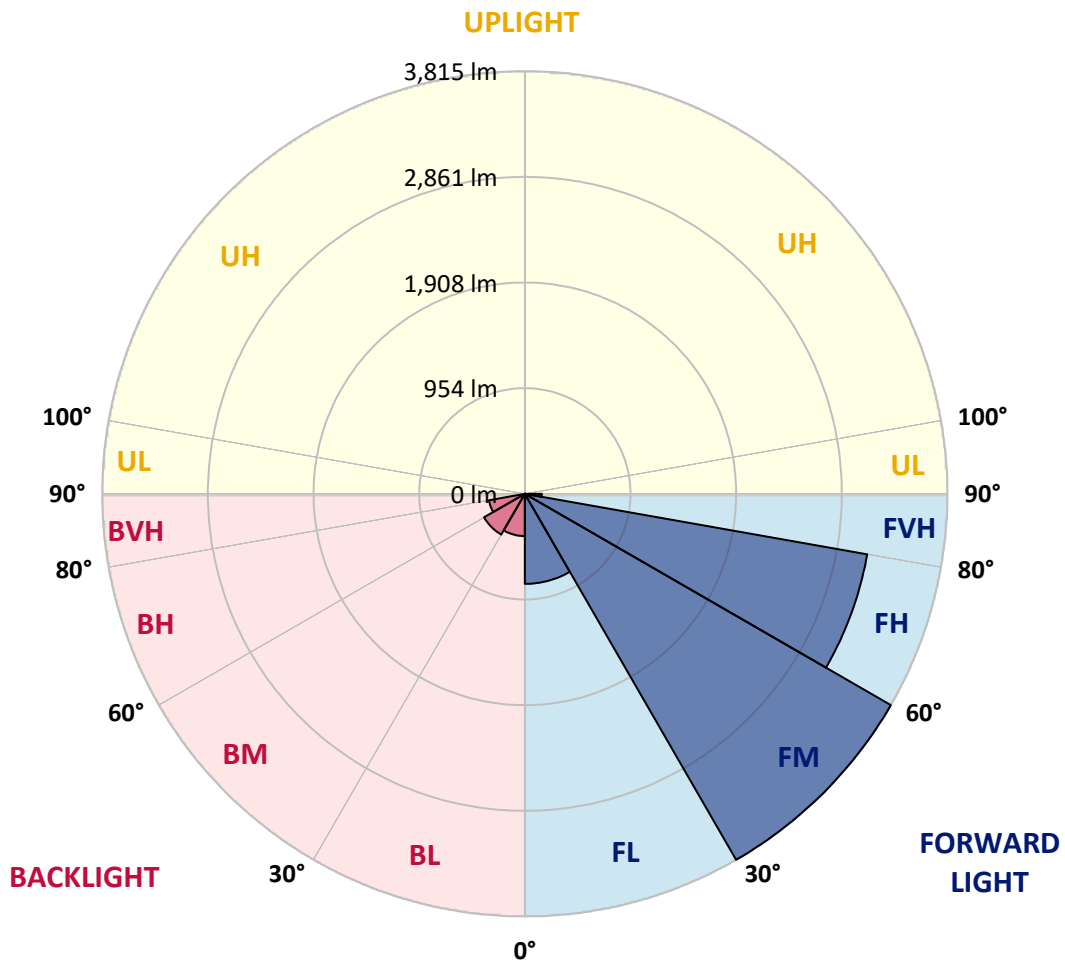


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.9	9.0			
FM (30°-60°)	3815.1	42.1			
FH (60°-80°)	3139.1	34.6			G2/5000
FVH (80°-90°)	152.7	1.7			G2/225
BL (0°-30°)	381.7	4.2	B1/500		
BM (30°-60°)	424.7	4.7	B1/1000		
BH (60°-80°)	329.4	3.6	B1/500		G1/500
BVH (80°-90°)	4.5	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°	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3
2.5°	2126.2	2137.1	2152.4	2174.3	2189.5	2180.8	2187.4	2224.5	2204.8	2222.3	2213.5
5°	2008.3	2019.3	2041.1	2038.9	2056.4	2089.1	2132.8	2180.8	2159.0	2211.4	2231.0
7.5°	1886.1	1881.7	1881.7	1927.6	1964.7	2010.5	2034.5	2113.1	2115.3	2161.2	2209.2
10°	1774.8	1787.9	1809.7	1827.2	1862.1	1927.6	1997.4	2058.6	2082.6	2174.3	2187.4
12.5°	1707.1	1713.6	1739.8	1755.1	1801.0	1864.3	1938.5	2017.1	2036.7	2130.6	2193.9
15°	1678.7	1694.0	1702.7	1731.1	1755.1	1814.1	1868.6	1958.1	2014.9	2089.1	2167.7
17.5°	1700.5	1694.0	1698.4	1707.1	1735.5	1787.9	1846.8	1936.3	1956.0	2080.4	2198.3
20°	1728.9	1731.1	1718.0	1713.6	1707.1	1757.3	1805.3	1921.0	1942.9	2080.4	2217.9
22.5°	1805.3	1781.3	1805.3	1770.4	1735.5	1757.3	1803.1	1923.2	1938.5	2078.2	2237.6
25°	1899.2	1903.6	1910.1	1835.9	1785.7	1770.4	1818.4	1929.8	1942.9	2095.7	2246.3
27.5°	2032.4	2052.0	2019.3	1982.1	1881.7	1805.3	1816.2	1925.4	1949.4	2086.9	2268.1
30°	2211.4	2196.1	2200.4	2115.3	2017.1	1897.0	1866.5	1936.3	1953.8	2097.8	2309.6
32.5°	2366.4	2348.9	2379.5	2348.9	2193.9	2028.0	1925.4	1958.1	1977.8	2124.0	2344.5
35°	2462.4	2484.2	2532.3	2565.0	2434.0	2198.3	2023.6	2017.1	2025.8	2137.1	2370.7
37.5°	2610.8	2650.1	2689.4	2772.4	2658.9	2407.8	2178.6	2093.5	2078.2	2200.4	2383.8
40°	2772.4	2761.5	2877.2	2975.4	2971.0	2702.5	2394.7	2228.8	2207.0	2300.9	2471.1
42.5°	2907.7	2896.8	3025.6	3187.2	3204.6	2986.3	2641.4	2420.9	2401.3	2455.9	2578.1
45°	3084.6	3093.3	3246.1	3438.2	3501.5	3361.8	2975.4	2696.0	2685.1	2667.6	2781.1
47.5°	3241.7	3289.8	3420.7	3647.8	3877.0	3750.4	3368.3	3097.7	3021.2	2982.0	3095.5
50°	3350.9	3394.5	3553.9	3796.2	4215.3	4296.1	3809.3	3525.5	3527.7	3431.7	3492.8
52.5°	3350.9	3348.7	3477.5	3796.2	4451.1	4865.9	4398.7	4064.7	4082.2	3981.8	3986.1
55°	3027.8	3021.2	3178.4	3516.8	4424.9	5413.8	5291.6	4748.0	4704.3	4510.0	4529.7
57.5°	2438.4	2453.7	2573.7	2979.8	4084.4	5669.2	6354.7	5516.4	5368.0	4966.3	4966.3
60°	1779.1	1766.0	1855.5	2139.3	3272.3	5573.2	7227.9	6422.3	6188.8	5343.9	5287.2
62.5°	1353.5	1351.3	1375.3	1471.3	2076.0	4859.3	7603.3	7575.0	7195.1	5715.1	5634.3
65°	1093.7	1098.0	1130.8	1198.5	1268.3	3313.8	7404.7	8950.2	8603.1	6267.3	6003.2
67.5°	892.8	903.8	943.0	1089.3	1074.0	1715.8	6306.6	9738.3	9803.8	7110.0	6498.7
70°	687.6	705.1	750.9	958.3	1034.7	1141.7	4372.5	9345.4	9520.0	7633.9	6199.7
72.5°	467.2	465.0	563.2	777.1	1045.6	1045.6	2434.0	7526.9	7692.8	7037.9	5385.4
75°	253.2	268.5	373.3	587.2	958.3	1010.7	1386.2	5507.7	5741.2	5472.7	4165.1
77.5°	137.5	139.7	207.4	384.2	796.8	964.9	925.6	3746.0	3837.7	3300.7	2281.2
80°	72.0	74.2	109.1	251.0	550.1	895.0	770.6	2233.2	2145.9	1266.1	753.1
82.5°	32.7	34.9	54.6	157.2	351.5	705.1	665.8	1078.4	995.4	353.6	229.2
85°	13.1	13.1	24.0	93.9	205.2	347.1	569.8	541.4	451.9	107.0	113.5
87.5°	4.4	4.4	6.5	37.1	83.0	207.4	303.4	286.0	196.5	39.3	61.1
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°	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3	2222.3
2.5°	2204.8	2228.8	2222.3	2217.9	2176.4	2172.1	2167.7	2128.4	2141.5	2108.8	2130.6
5°	2217.9	2231.0	2196.1	2130.6	2071.7	2006.2	1956.0	1921.0	1857.7	1833.7	1829.3
7.5°	2204.8	2204.8	2132.8	2028.0	1912.3	1805.3	1670.0	1573.9	1501.9	1447.3	1467.0
10°	2187.4	2161.2	2086.9	1901.4	1691.8	1530.3	1336.0	1194.1	1087.1	1052.2	1030.4
12.5°	2187.4	2141.5	1975.6	1722.4	1451.7	1207.2	975.8	790.2	687.6	626.5	617.8
15°	2167.7	2100.0	1894.8	1554.3	1218.1	886.3	622.2	462.8	375.5	351.5	342.7
17.5°	2172.1	2091.3	1774.8	1355.6	945.2	589.4	379.8	292.5	270.7	259.8	262.0
20°	2180.8	2091.3	1667.8	1161.3	681.1	366.7	262.0	246.7	235.8	231.4	233.6
22.5°	2209.2	2049.8	1558.7	962.7	460.6	264.1	231.4	216.1	207.4	200.8	198.7
25°	2213.5	2043.3	1453.9	766.2	316.5	222.7	203.0	185.6	174.6	165.9	163.7
27.5°	2207.0	2014.9	1307.6	569.8	237.9	198.7	172.5	155.0	139.7	133.2	131.0
30°	2231.0	1962.5	1183.2	410.4	200.8	172.5	146.3	126.6	113.5	104.8	104.8
32.5°	2233.2	1916.7	1045.6	292.5	183.4	152.8	124.4	102.6	89.5	85.1	85.1
35°	2235.4	1875.2	892.8	222.7	163.7	131.0	102.6	85.1	76.4	69.9	69.9
37.5°	2241.9	1844.6	753.1	187.7	146.3	111.3	85.1	69.9	61.1	58.9	58.9
40°	2255.0	1803.1	606.9	165.9	126.6	93.9	72.0	58.9	50.2	48.0	45.8
42.5°	2290.0	1792.2	484.6	148.4	113.5	78.6	58.9	48.0	41.5	37.1	34.9
45°	2434.0	1820.6	375.5	137.5	96.1	65.5	50.2	39.3	30.6	28.4	26.2
47.5°	2669.8	1914.5	296.9	122.2	80.8	54.6	41.5	30.6	24.0	21.8	19.6
50°	3027.8	2128.4	242.3	109.1	67.7	45.8	32.7	24.0	17.5	15.3	15.3
52.5°	3497.1	2416.6	209.6	96.1	54.6	39.3	26.2	17.5	13.1	10.9	10.9
55°	3977.4	2757.1	196.5	83.0	45.8	32.7	19.6	13.1	8.7	6.5	6.5
57.5°	4418.4	2977.6	189.9	67.7	39.3	24.0	15.3	8.7	4.4	2.2	2.2
60°	4693.4	3139.1	170.3	54.6	30.6	19.6	10.9	4.4	2.2	0.0	0.0
62.5°	5055.8	3302.9	139.7	41.5	21.8	13.1	6.5	2.2	0.0	0.0	0.0
65°	5533.9	3486.2	109.1	32.7	17.5	8.7	4.4	2.2	0.0	0.0	0.0
67.5°	5763.1	3390.2	74.2	24.0	10.9	4.4	2.2	0.0	0.0	0.0	0.0
70°	5304.7	2855.3	52.4	17.5	6.5	2.2	2.2	0.0	0.0	0.0	0.0
72.5°	4459.8	2237.6	39.3	10.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	3287.6	1399.3	30.6	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1744.2	521.7	21.8	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	515.2	152.8	15.3	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	170.3	45.8	8.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	87.3	17.5	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	50.2	6.5	4.4	4.4	2.2	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)