

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: P675419

Luminaire Tested: **CCW-SA-2D-740-U-SL2**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675419
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-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL2 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

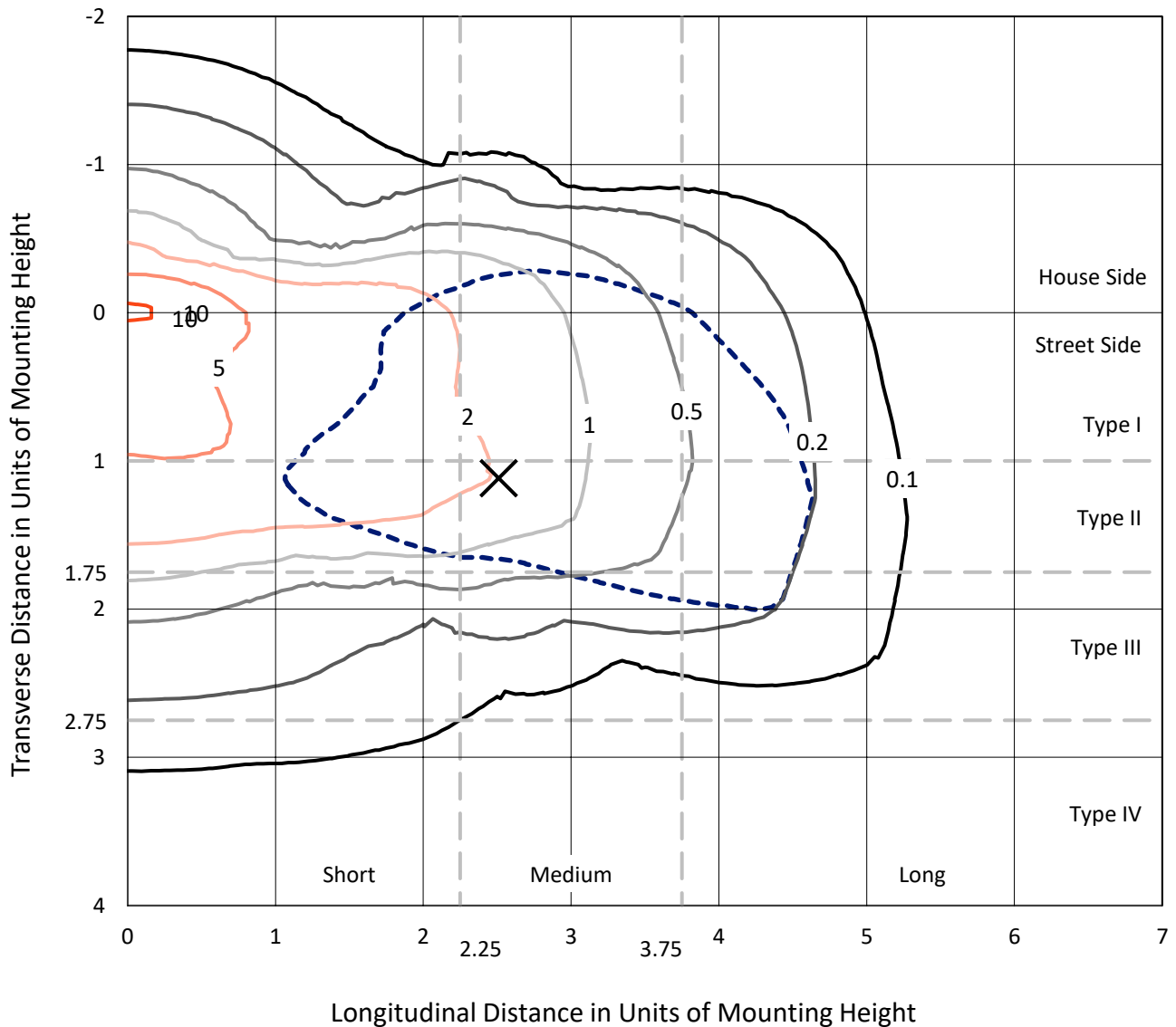
Lumens per Lamp: N/A
Luminaire Lumens: 11037.8 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): 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

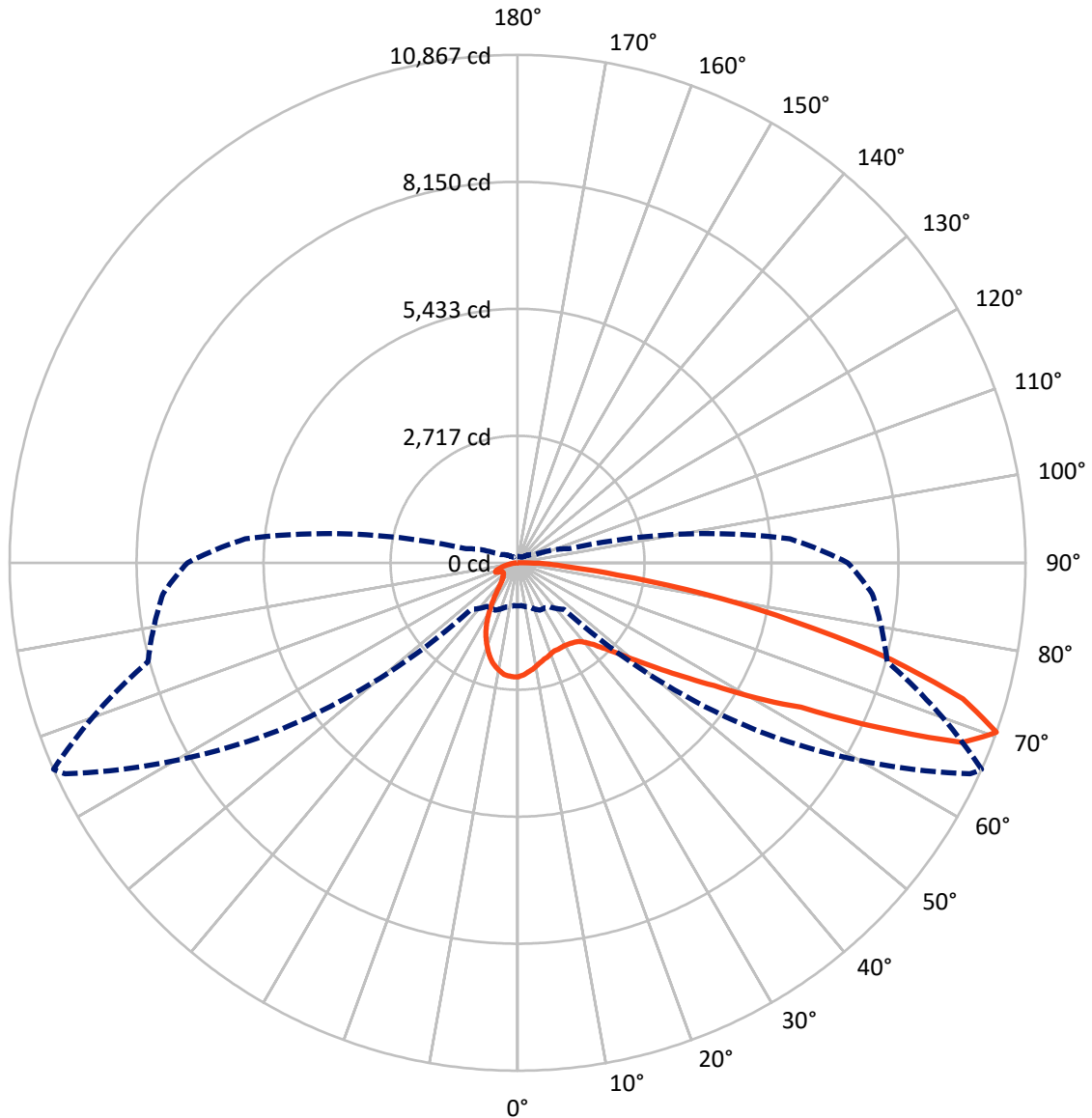
× Max cd
 - - - 1/2 Max cd



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 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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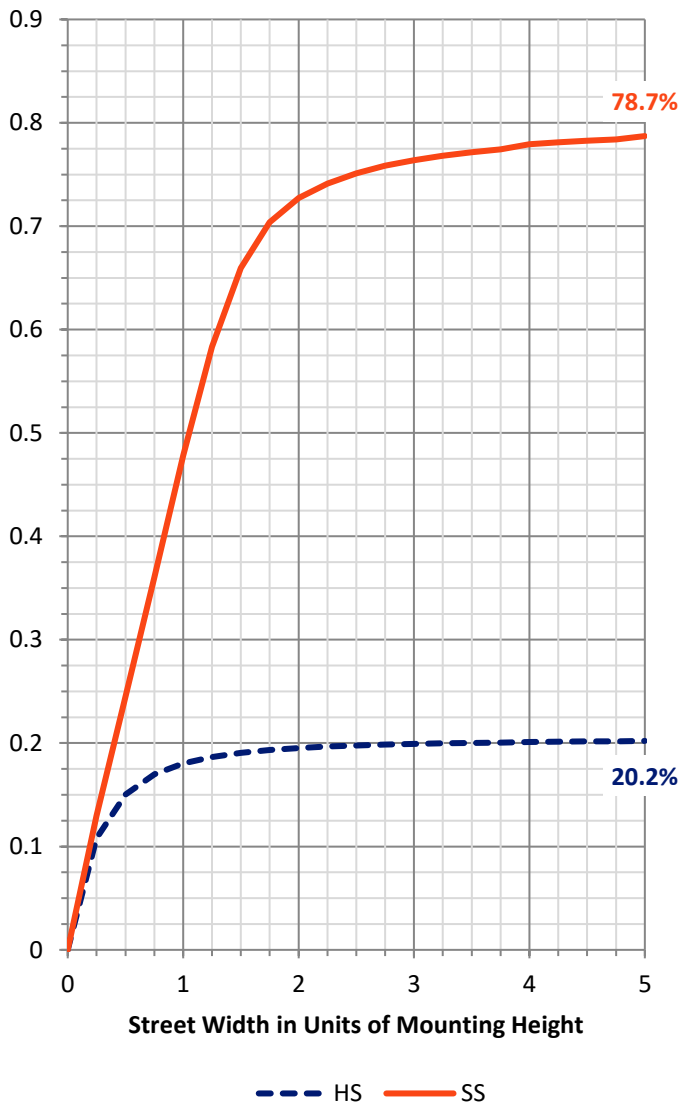
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2259.3	0.0	2259.3
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	8778.5	0.0	8778.5
	% Fixture	79.5	0.0	79.5
Total	Lumens	11037.8	0.0	11037.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	2.0
10°-20°	530.8	4.8
20°-30°	729.0	6.6
30°-40°	977.4	8.9
40°-50°	1418.1	12.8
50°-60°	2155.6	19.5
60°-70°	2662.3	24.1
70°-80°	1979.8	17.9
80°-90°	369.3	3.3
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°	11037.8	100.0
0°-180°	11037.8	100.0

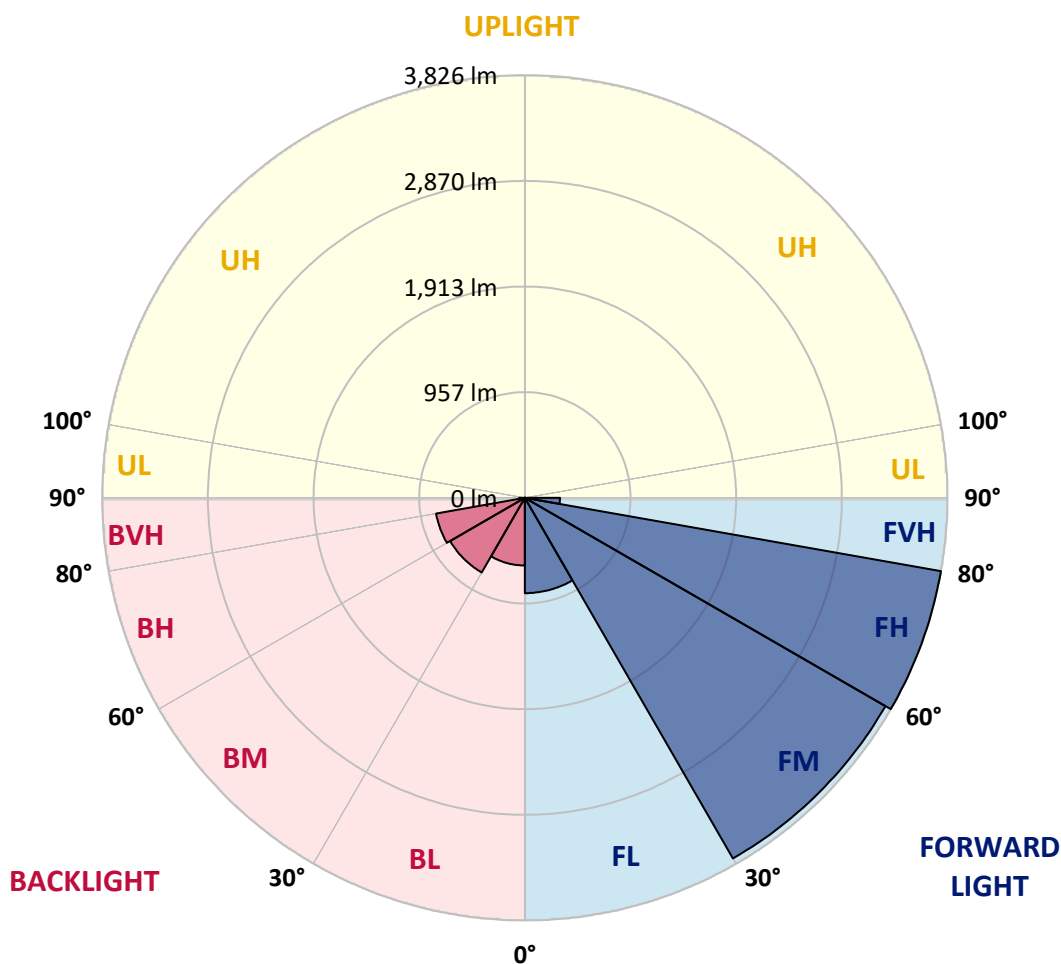


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.1	7.8			
FM (30°-60°)	3770.7	34.2			
FH (60°-80°)	3826.4	34.7			G2/5000
FVH (80°-90°)	318.3	2.9			G3/500
BL (0°-30°)	612.3	5.5	B2/1000		
BM (30°-60°)	780.4	7.1	B1/1000		
BH (60°-80°)	815.6	7.4	B2/1000		G2/1000
BVH (80°-90°)	51.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6
2.5°	2319.5	2331.8	2336.0	2344.2	2364.7	2381.1	2405.7	2418.1	2405.7	2422.2	2422.2
5°	2159.4	2143.0	2184.1	2200.5	2225.1	2258.0	2315.4	2360.6	2348.3	2397.5	2438.6
7.5°	2023.9	2023.9	2036.3	2073.2	2101.9	2151.2	2212.8	2282.6	2303.1	2368.8	2430.4
10°	1900.8	1917.2	1917.2	1974.7	1991.1	2048.6	2151.2	2237.4	2241.5	2352.4	2438.6
12.5°	1835.1	1826.9	1867.9	1884.4	1933.6	1991.1	2073.2	2180.0	2184.1	2303.1	2422.2
15°	1781.7	1789.9	1810.5	1851.5	1896.7	1941.8	2019.8	2118.4	2138.9	2278.5	2414.0
17.5°	1785.8	1789.9	1789.9	1818.7	1855.6	1909.0	1982.9	2097.8	2110.2	2245.6	2401.6
20°	1810.5	1794.0	1806.4	1818.7	1843.3	1892.6	1954.2	2052.7	2065.0	2241.5	2430.4
22.5°	1863.8	1851.5	1847.4	1843.3	1839.2	1867.9	1945.9	2028.1	2040.4	2221.0	2442.7
25°	1950.1	1945.9	1917.2	1888.5	1867.9	1867.9	1929.5	2048.6	2044.5	2221.0	2450.9
27.5°	2052.7	2052.7	2048.6	1995.2	1933.6	1900.8	1941.8	2040.4	2036.3	2221.0	2471.4
30°	2192.3	2192.3	2180.0	2130.7	2019.8	1925.4	1950.1	2032.2	2044.5	2204.6	2455.0
32.5°	2344.2	2340.1	2352.4	2307.2	2192.3	2040.4	1999.3	2048.6	2060.9	2221.0	2459.1
35°	2455.0	2479.6	2520.7	2479.6	2364.7	2159.4	2069.1	2081.4	2089.6	2225.1	2475.5
37.5°	2582.3	2611.0	2668.5	2701.3	2578.2	2340.1	2180.0	2134.8	2134.8	2278.5	2479.6
40°	2767.0	2738.3	2836.8	2894.3	2845.0	2561.8	2352.4	2233.3	2237.4	2348.3	2533.0
42.5°	2902.5	2931.2	3033.9	3136.5	3074.9	2832.7	2541.2	2393.4	2393.4	2450.9	2615.1
45°	3054.4	3087.2	3230.9	3354.1	3399.2	3157.0	2799.9	2623.3	2615.1	2652.1	2762.9
47.5°	3222.7	3267.9	3432.1	3575.8	3694.8	3493.7	3132.4	2902.5	2898.4	2927.1	3009.2
50°	3415.7	3432.1	3567.6	3830.3	4068.4	3941.2	3538.8	3296.6	3276.1	3288.4	3399.2
52.5°	3473.1	3460.8	3616.8	3900.1	4335.3	4487.2	4093.1	3744.1	3735.9	3707.1	3850.8
55°	3263.8	3304.8	3456.7	3818.0	4552.9	5131.7	4700.6	4355.8	4281.9	4203.9	4376.3
57.5°	2845.0	2849.1	3021.6	3448.5	4384.5	5665.4	5731.1	4955.2	4959.3	4749.9	4947.0
60°	2212.8	2200.5	2336.0	2721.9	3904.2	5829.6	6856.0	5911.7	5870.7	5295.9	5476.6
62.5°	1597.0	1572.4	1601.1	1826.9	2918.9	5579.2	7960.3	6983.2	6810.8	5854.3	5993.8
65°	1313.7	1326.0	1338.4	1350.7	1638.0	4602.1	8301.1	8732.1	8502.2	6507.0	6564.5
67.5°	1087.9	1096.1	1149.5	1223.4	1215.2	2717.8	7906.9	10349.6	10263.4	7315.8	7057.1
70°	923.7	919.6	981.2	1116.7	1137.2	1412.2	6260.7	10682.2	10866.9	8186.1	7615.5
72.5°	739.0	747.2	800.5	981.2	1116.7	1190.6	3604.5	9967.8	9963.7	8855.3	7315.8
75°	529.6	529.6	603.5	812.9	1079.7	1178.2	1995.2	8091.7	8243.6	8321.6	6346.9
77.5°	349.0	365.4	422.9	607.6	1014.0	1153.6	1264.5	5883.0	6071.8	6223.7	4856.7
80°	238.1	246.3	283.3	422.9	858.0	1161.8	1034.6	3957.6	4031.5	3436.2	1970.6
82.5°	143.7	147.8	188.8	295.6	615.8	1104.3	973.0	2184.1	2138.9	1038.7	566.5
85°	78.0	82.1	119.1	197.1	406.4	964.8	956.6	1071.5	997.6	381.8	238.1
87.5°	28.7	28.7	53.4	98.5	234.0	661.0	833.4	636.3	595.3	193.0	110.8
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°	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6	2438.6
2.5°	2442.7	2442.7	2442.7	2442.7	2438.6	2422.2	2434.5	2430.4	2405.7	2409.9	2393.4
5°	2434.5	2455.0	2442.7	2426.3	2405.7	2356.5	2340.1	2327.7	2294.9	2282.6	2294.9
7.5°	2455.0	2438.6	2430.4	2401.6	2319.5	2274.4	2216.9	2147.1	2097.8	2085.5	2097.8
10°	2450.9	2450.9	2414.0	2331.8	2253.8	2122.5	2048.6	1925.4	1855.6	1835.1	1839.2
12.5°	2434.5	2446.8	2389.3	2258.0	2110.2	1950.1	1814.6	1683.2	1560.0	1510.8	1502.6
15°	2450.9	2438.6	2336.0	2167.6	1962.4	1740.7	1543.6	1350.7	1235.7	1161.8	1145.4
17.5°	2426.3	2414.0	2266.2	2044.5	1769.4	1486.1	1239.8	1030.4	915.5	886.8	886.8
20°	2455.0	2377.0	2184.1	1896.7	1568.3	1207.0	927.8	771.8	743.1	743.1	751.3
22.5°	2450.9	2368.8	2114.3	1753.0	1326.0	911.4	689.7	644.5	648.6	681.5	677.4
25°	2426.3	2352.4	2015.7	1592.9	1071.5	685.6	570.6	558.3	587.1	624.0	619.9
27.5°	2422.2	2307.2	1925.4	1404.0	817.0	541.9	496.7	496.7	525.5	558.3	554.2
30°	2397.5	2270.3	1814.6	1190.6	615.8	472.1	455.7	455.7	468.0	484.4	484.4
32.5°	2393.4	2221.0	1691.4	968.9	492.6	427.0	418.7	422.9	422.9	431.1	427.0
35°	2360.6	2155.3	1564.1	751.3	427.0	402.3	394.1	390.0	390.0	385.9	385.9
37.5°	2348.3	2114.3	1432.8	583.0	398.2	381.8	373.6	361.3	357.2	357.2	353.1
40°	2360.6	2073.2	1305.5	472.1	373.6	365.4	353.1	336.6	332.5	332.5	332.5
42.5°	2405.7	2069.1	1174.1	410.5	361.3	349.0	332.5	316.1	312.0	316.1	312.0
45°	2508.4	2101.9	1046.9	381.8	344.9	332.5	312.0	299.7	295.6	299.7	299.7
47.5°	2676.7	2192.3	931.9	365.4	332.5	316.1	295.6	283.3	283.3	283.3	283.3
50°	2955.9	2364.7	821.1	353.1	324.3	303.8	283.3	266.8	262.7	262.7	266.8
52.5°	3374.6	2660.3	730.8	344.9	312.0	287.4	266.8	254.5	246.3	242.2	246.3
55°	3879.6	3091.3	702.0	336.6	295.6	275.1	254.5	238.1	229.9	229.9	225.8
57.5°	4421.5	3567.6	751.3	328.4	283.3	258.6	238.1	221.7	213.5	209.4	209.4
60°	5008.6	4130.0	931.9	324.3	271.0	242.2	221.7	209.4	197.1	193.0	193.0
62.5°	5542.2	4639.1	1256.2	320.2	262.7	225.8	205.3	188.8	180.6	176.5	176.5
65°	6149.8	5205.6	1572.4	336.6	258.6	213.5	188.8	172.4	164.2	160.1	160.1
67.5°	6679.4	5698.3	1757.1	377.7	271.0	197.1	168.3	156.0	151.9	147.8	147.8
70°	7065.3	5850.2	1178.2	414.6	291.5	184.7	151.9	143.7	135.5	135.5	135.5
72.5°	6548.1	5222.0	697.9	390.0	275.1	172.4	135.5	127.3	123.2	123.2	119.1
75°	5599.7	4446.1	537.8	316.1	221.7	147.8	119.1	110.8	106.7	106.7	102.6
77.5°	4134.1	3185.8	398.2	250.4	172.4	119.1	102.6	98.5	94.4	90.3	90.3
80°	1617.5	1395.8	271.0	184.7	127.3	94.4	86.2	82.1	78.0	73.9	73.9
82.5°	500.9	422.9	156.0	123.2	90.3	73.9	69.8	65.7	61.6	57.5	57.5
85°	217.6	209.4	102.6	78.0	61.6	49.3	49.3	45.2	41.1	36.9	36.9
87.5°	106.7	102.6	57.5	36.9	32.8	24.6	24.6	20.5	16.4	16.4	16.4
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)