

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: P676970

Luminaire Tested: **CCW-SA-2D-727-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676970
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

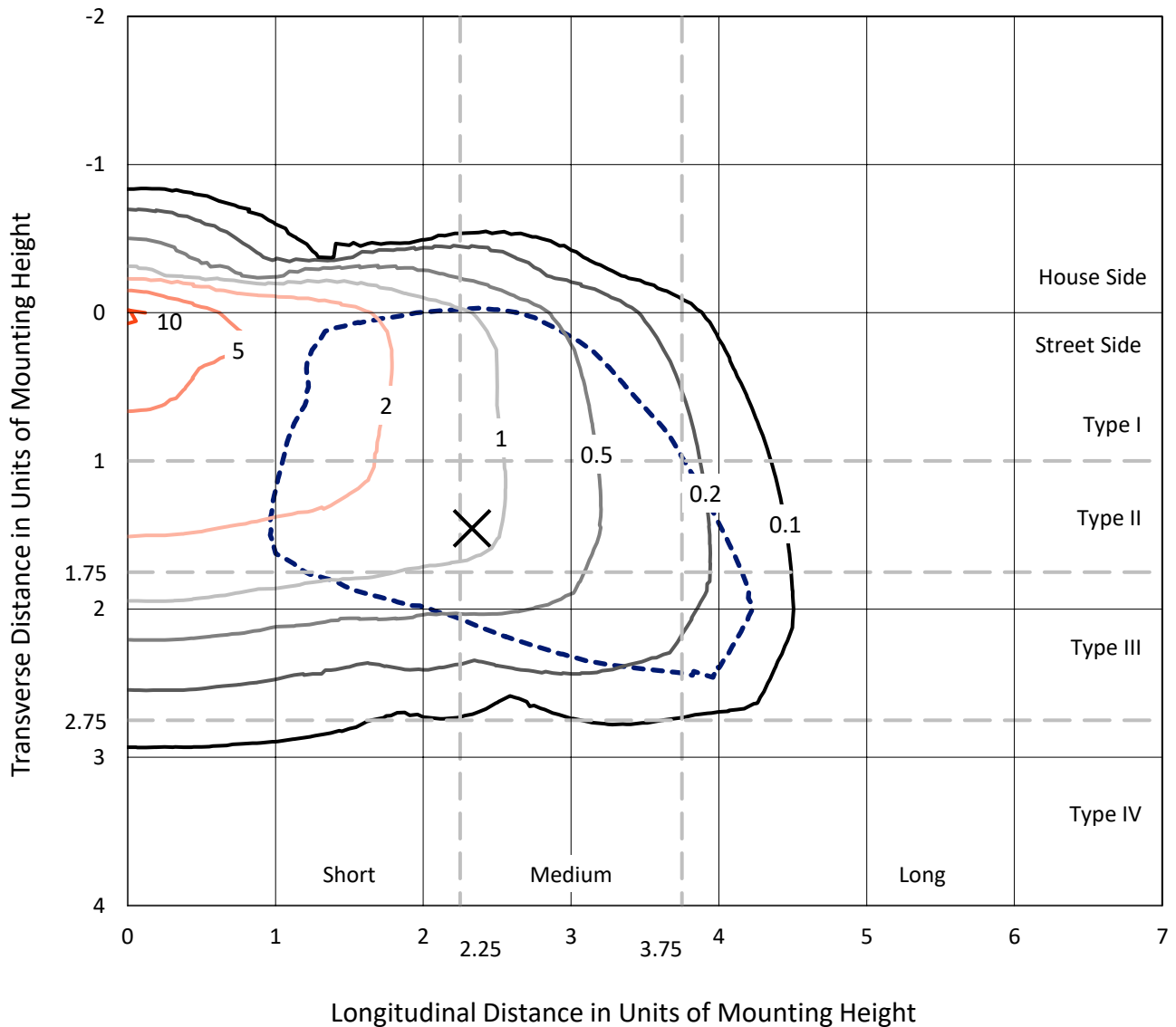
Lumens per Lamp: N/A
Luminaire Lumens: 7707.4 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

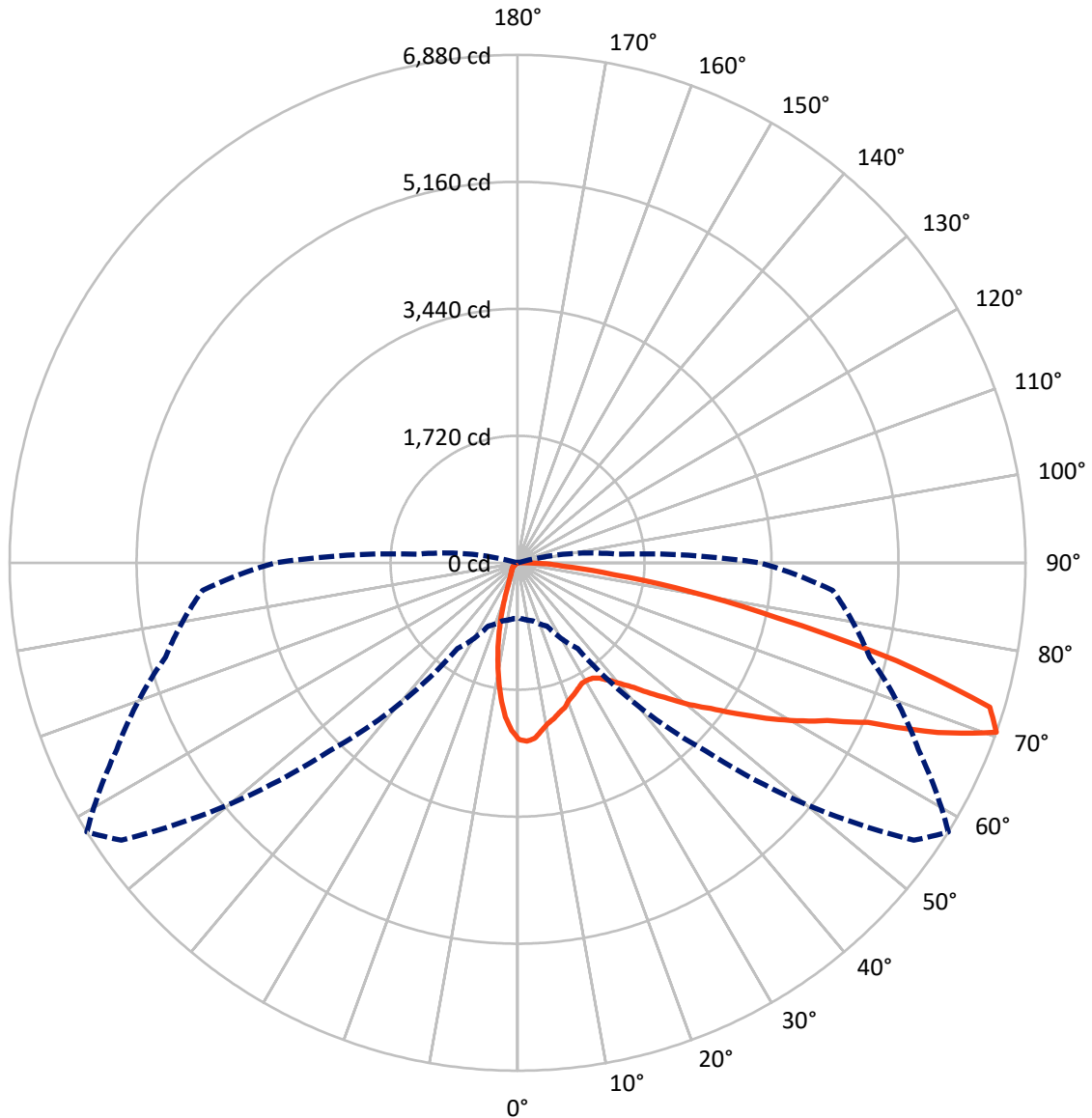
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.6 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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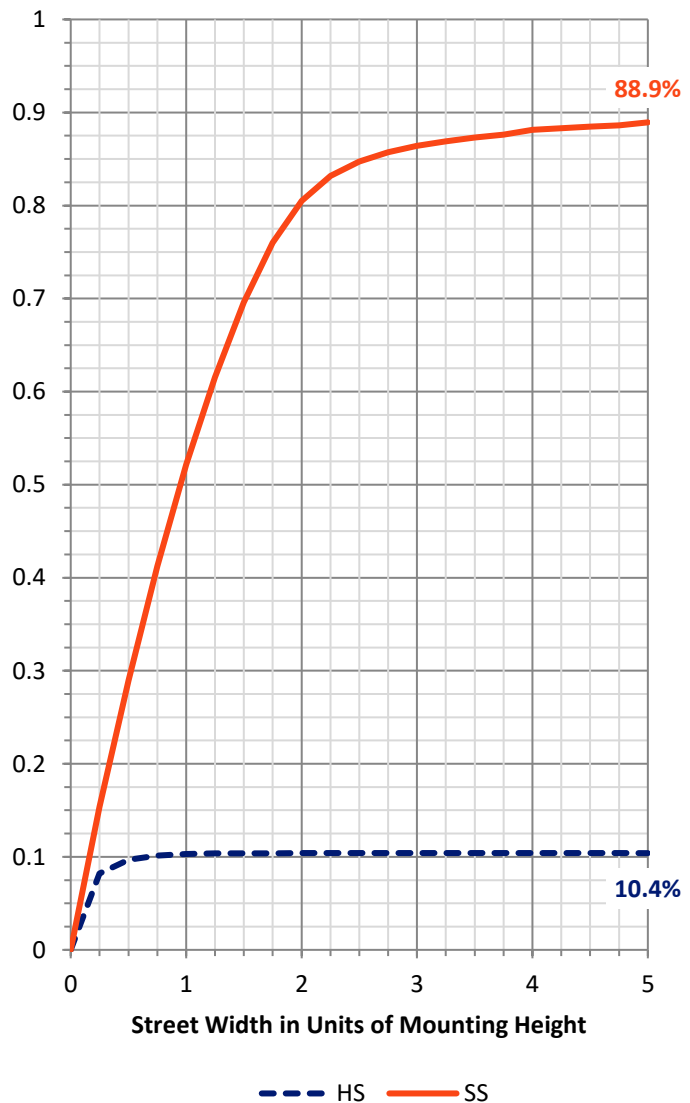
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.1	0.0	807.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6900.3	0.0	6900.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	7707.4	0.0	7707.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	2.5
10°-20°	406.4	5.3
20°-30°	544.2	7.1
30°-40°	735.6	9.5
40°-50°	1055.8	13.7
50°-60°	1555.9	20.2
60°-70°	1897.8	24.6
70°-80°	1158.9	15.0
80°-90°	157.4	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°	7707.4	100.0
0°-180°	7707.4	100.0

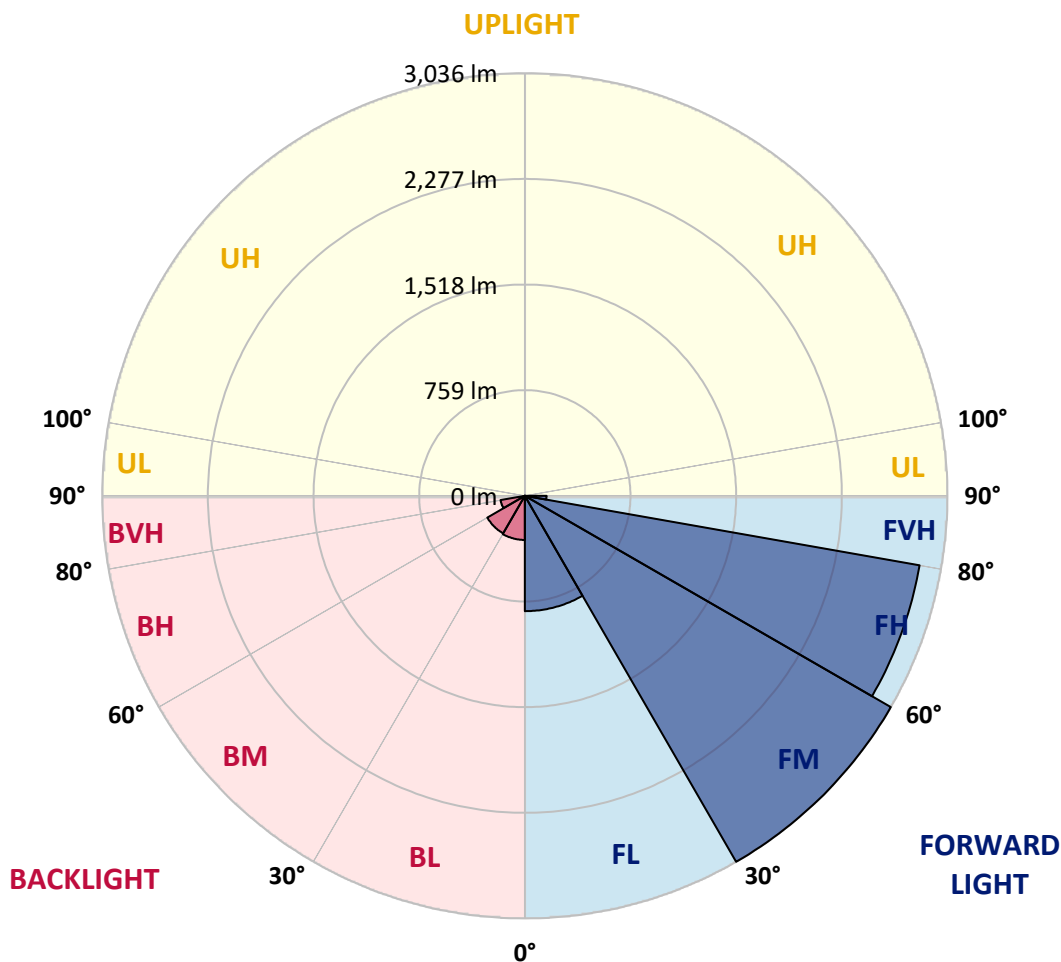


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.7	10.8			
FM (30°-60°)	3035.9	39.4			
FH (60°-80°)	2879.8	37.4			G2/5000
FVH (80°-90°)	155.9	2.0			G2/225
BL (0°-30°)	317.2	4.1	B1/500		
BM (30°-60°)	311.5	4.0	B1/1000		
BH (60°-80°)	176.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6
2.5°	2436.0	2445.0	2423.3	2448.6	2425.1	2436.0	2423.3	2419.7	2421.5	2423.3	2408.9
5°	2322.1	2343.8	2352.8	2338.4	2372.7	2367.3	2389.0	2390.8	2381.8	2372.7	2374.5
7.5°	2172.1	2193.8	2202.9	2211.9	2246.2	2291.4	2320.3	2302.3	2316.7	2349.2	2300.4
10°	2063.7	2058.3	2056.5	2074.6	2139.6	2177.6	2226.4	2220.9	2257.1	2287.8	2248.0
12.5°	1930.0	1919.1	1951.7	1966.1	2024.0	2090.8	2128.8	2168.5	2204.7	2237.2	2192.0
15°	1830.6	1839.6	1852.3	1883.0	1924.6	2013.1	2069.1	2107.1	2172.1	2188.4	2170.3
17.5°	1751.1	1758.3	1776.4	1792.6	1845.1	1930.0	2018.5	2063.7	2132.4	2175.8	2119.7
20°	1752.9	1731.2	1731.2	1747.5	1776.4	1877.6	1971.6	1986.0	2080.0	2154.1	2116.1
22.5°	1754.7	1747.5	1731.2	1729.4	1742.0	1814.3	1910.1	1942.6	2043.8	2130.6	2085.4
25°	1780.0	1752.9	1754.7	1729.4	1734.8	1771.0	1846.9	1895.7	2011.3	2143.2	2069.1
27.5°	1801.7	1814.3	1789.0	1778.2	1747.5	1745.7	1808.9	1850.5	1995.0	2172.1	2080.0
30°	1850.5	1859.5	1859.5	1852.3	1823.4	1781.8	1796.3	1848.7	1962.5	2166.7	2061.9
32.5°	1931.8	1915.5	1937.2	1926.4	1888.4	1823.4	1836.0	1863.1	1982.4	2235.4	2090.8
35°	1958.9	1971.6	2000.5	1977.0	1964.3	1926.4	1901.1	1921.0	2011.3	2304.1	2134.2
37.5°	2042.0	2024.0	2043.8	2096.2	2108.9	2040.2	1991.4	2020.3	2119.7	2385.4	2173.9
40°	2049.3	2063.7	2099.9	2202.9	2215.5	2186.6	2146.8	2154.1	2228.2	2490.2	2273.3
42.5°	2085.4	2101.7	2175.8	2262.5	2331.2	2336.6	2307.7	2307.7	2370.9	2658.3	2383.6
45°	2155.9	2128.8	2224.5	2370.9	2470.3	2490.2	2528.1	2519.1	2569.7	2835.3	2589.6
47.5°	2183.0	2192.0	2296.8	2473.9	2587.8	2679.9	2743.2	2745.0	2770.3	3061.2	2857.0
50°	2271.5	2269.7	2396.2	2560.7	2728.7	2896.8	3019.7	3019.7	3017.9	3281.7	3086.5
52.5°	2389.0	2385.4	2483.0	2678.1	2896.8	3108.2	3270.9	3276.3	3317.8	3552.8	3350.4
55°	2580.5	2564.3	2658.3	2802.8	3064.8	3321.5	3603.4	3605.2	3572.6	3746.1	3540.1
57.5°	2741.4	2739.6	2817.3	2956.4	3252.8	3596.1	3923.2	3972.0	3869.0	3944.9	3691.9
60°	2699.8	2723.3	2884.1	3090.1	3451.6	3939.5	4268.4	4344.3	4179.8	4080.4	3805.8
62.5°	2441.4	2495.6	2670.9	2999.8	3619.6	4438.2	4743.6	4709.3	4342.5	4196.1	3944.9
65°	1756.5	1810.7	2027.6	2520.9	3424.5	4790.6	5368.9	5213.5	4631.6	4367.8	4131.0
67.5°	1033.7	1055.3	1190.9	1608.3	2560.7	4599.1	6127.9	6140.5	5200.8	4631.6	4452.7
70°	746.3	762.6	815.0	948.7	1418.6	3605.2	6550.8	6879.6	5990.6	4935.2	4282.8
72.5°	572.9	572.9	661.4	789.7	903.6	2159.5	6028.5	6688.1	6162.2	4644.3	3451.6
75°	412.0	422.9	518.6	679.5	833.1	1084.3	4441.9	5307.5	5222.5	3764.2	2410.7
77.5°	236.7	242.2	365.0	569.2	782.5	744.5	2745.0	3597.9	3699.1	2356.5	1044.5
80°	121.1	124.7	204.2	450.0	708.4	648.8	1637.2	2369.1	2009.5	684.9	242.2
82.5°	59.6	59.6	92.2	287.3	601.8	574.7	963.2	1308.3	712.0	157.2	101.2
85°	19.9	21.7	41.6	162.6	435.5	347.0	589.1	621.6	238.5	59.6	56.0
87.5°	5.4	7.2	10.8	59.6	189.7	227.7	350.6	397.6	97.6	23.5	27.1
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°	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6
2.5°	2354.7	2342.0	2327.6	2291.4	2262.5	2224.5	2199.2	2179.4	2141.4	2148.6	2132.4
5°	2331.2	2307.7	2224.5	2145.0	2072.7	1962.5	1886.6	1837.8	1798.1	1758.3	1787.2
7.5°	2289.6	2233.6	2103.5	1955.3	1801.7	1657.1	1512.5	1425.8	1362.6	1304.7	1302.9
10°	2219.1	2128.8	1924.6	1731.2	1494.5	1304.7	1120.4	975.8	881.9	813.2	811.4
12.5°	2139.6	2045.6	1789.0	1474.6	1201.7	934.3	713.8	560.2	471.7	417.4	410.2
15°	2089.0	1951.7	1619.2	1246.9	909.0	609.0	395.8	300.0	265.6	253.0	253.0
17.5°	2024.0	1866.7	1451.1	1010.2	630.7	352.4	256.6	231.3	229.5	225.9	222.3
20°	1996.9	1801.7	1301.1	806.0	399.4	249.4	220.5	215.0	215.0	211.4	207.8
22.5°	1924.6	1707.7	1142.1	590.9	265.6	218.7	207.8	200.6	197.0	193.4	197.0
25°	1892.0	1640.9	992.1	408.4	216.9	195.2	189.7	182.5	177.1	175.3	175.3
27.5°	1870.4	1574.0	845.7	283.7	191.6	178.9	168.1	162.6	155.4	148.2	148.2
30°	1854.1	1521.6	704.8	209.6	171.7	159.0	150.0	137.3	128.3	121.1	121.1
32.5°	1832.4	1460.1	563.8	178.9	155.4	142.8	126.5	115.7	103.0	97.6	97.6
35°	1839.6	1418.6	442.7	159.0	139.1	122.9	108.4	94.0	81.3	75.9	74.1
37.5°	1854.1	1387.9	336.1	142.8	124.7	106.6	90.4	74.1	66.9	59.6	59.6
40°	1915.5	1378.8	247.6	131.9	113.8	94.0	75.9	61.4	54.2	48.8	47.0
42.5°	2018.5	1391.5	191.6	119.3	103.0	79.5	63.2	50.6	43.4	37.9	36.1
45°	2150.5	1440.3	157.2	112.0	90.4	66.9	50.6	41.6	32.5	28.9	28.9
47.5°	2342.0	1516.2	137.3	103.0	79.5	56.0	43.4	32.5	25.3	21.7	21.7
50°	2558.9	1602.9	121.1	92.2	68.7	47.0	34.3	25.3	18.1	16.3	16.3
52.5°	2775.7	1713.1	112.0	84.9	59.6	37.9	27.1	18.1	12.6	10.8	10.8
55°	3003.4	1810.7	101.2	79.5	48.8	30.7	19.9	10.8	7.2	5.4	5.4
57.5°	3162.4	1848.7	88.5	68.7	37.9	23.5	14.5	7.2	3.6	1.8	1.8
60°	3276.3	1854.1	75.9	56.0	28.9	18.1	9.0	3.6	1.8	0.0	0.0
62.5°	3372.1	1864.9	65.1	43.4	21.7	12.6	5.4	1.8	0.0	0.0	0.0
65°	3561.8	1855.9	52.4	34.3	14.5	7.2	3.6	0.0	0.0	0.0	0.0
67.5°	3711.8	1765.5	41.6	23.5	9.0	3.6	1.8	0.0	0.0	0.0	0.0
70°	3283.5	1346.3	32.5	16.3	5.4	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	2578.7	898.1	21.7	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	1691.4	446.4	16.3	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	657.8	117.5	10.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.0	39.8	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.7	14.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.6	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.7	3.6	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)