

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: P677036

Luminaire Tested: **CCW-SA-2D-827-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677036
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

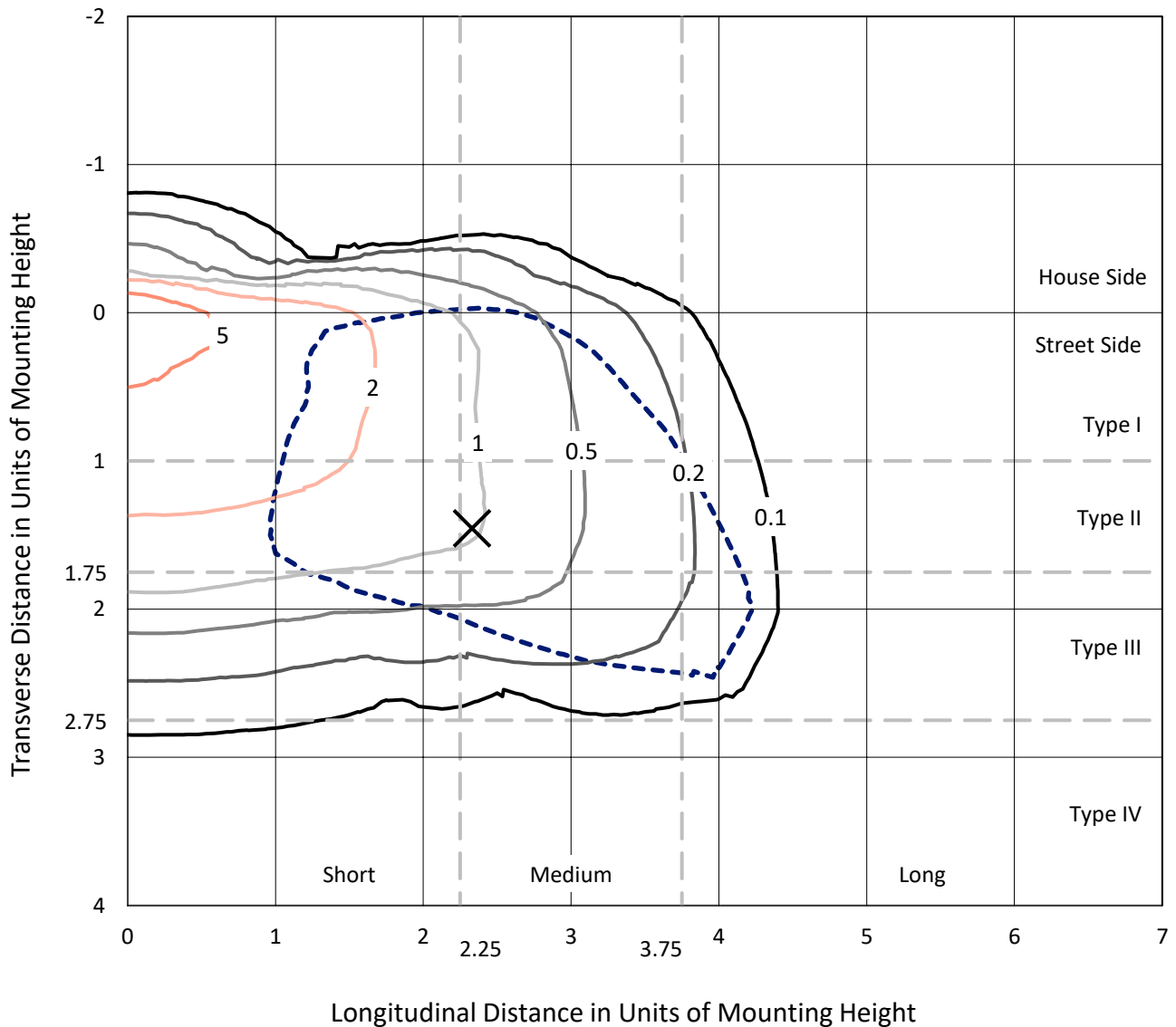
Lumens per Lamp: N/A
Luminaire Lumens: 6774.7 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

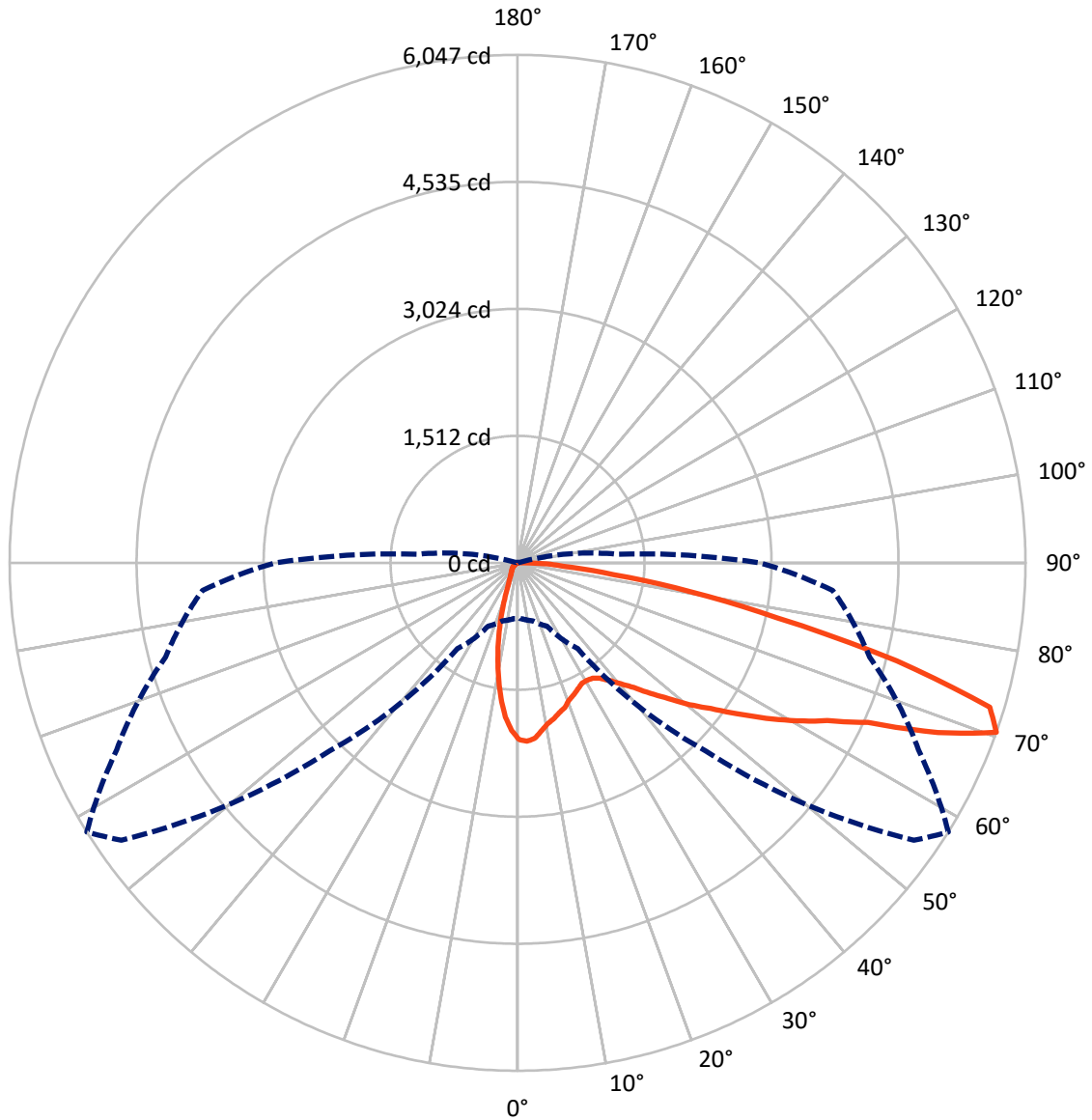
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.3 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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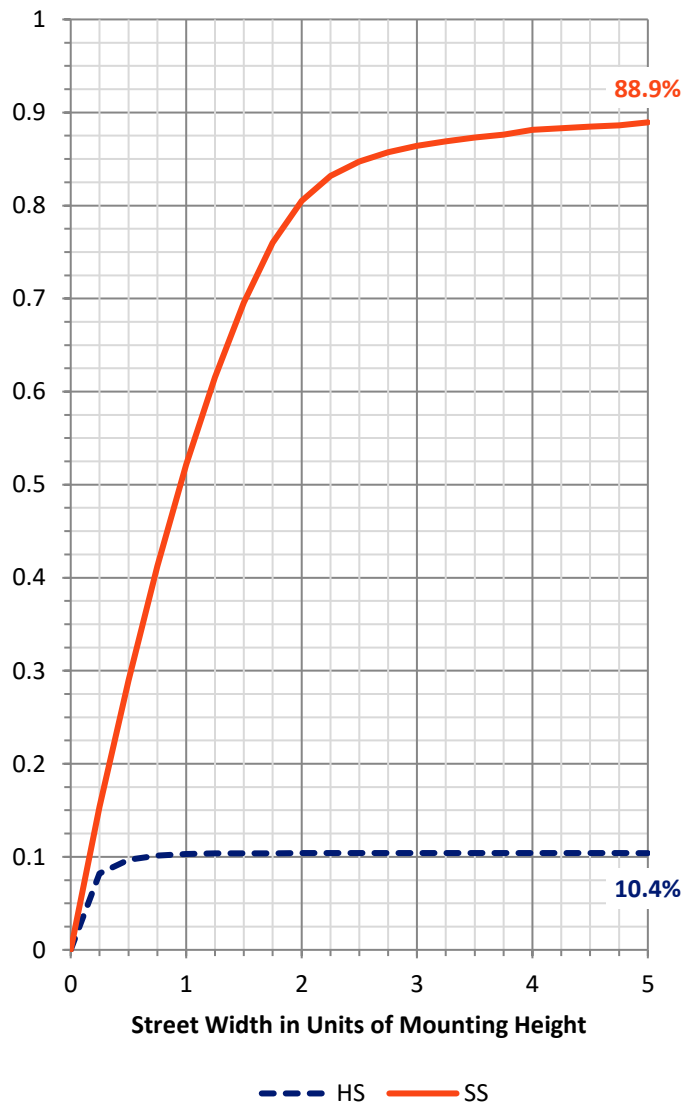
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.4	0.0	709.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6065.3	0.0	6065.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	6774.7	0.0	6774.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	2.5
10°-20°	357.2	5.3
20°-30°	478.3	7.1
30°-40°	646.6	9.5
40°-50°	928.0	13.7
50°-60°	1367.6	20.2
60°-70°	1668.2	24.6
70°-80°	1018.7	15.0
80°-90°	138.4	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°	6774.7	100.0
0°-180°	6774.7	100.0

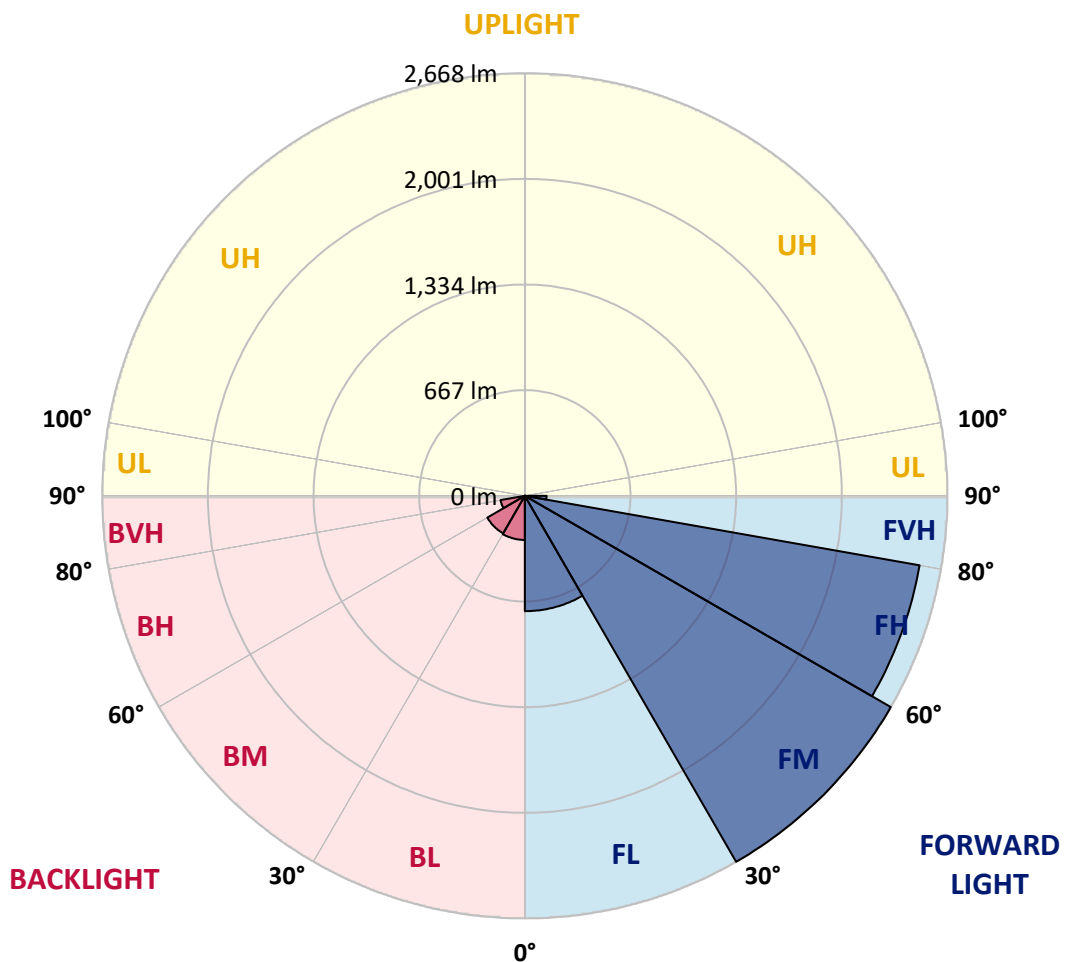


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.4	10.8			
FM (30°-60°)	2668.5	39.4			
FH (60°-80°)	2531.4	37.4			G2/5000
FVH (80°-90°)	137.0	2.0			G2/225
BL (0°-30°)	278.8	4.1	B1/500		
BM (30°-60°)	273.8	4.0	B1/1000		
BH (60°-80°)	155.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1
2.5°	2141.2	2149.1	2130.1	2152.3	2131.7	2141.2	2130.1	2126.9	2128.5	2130.1	2117.4
5°	2041.1	2060.2	2068.1	2055.4	2085.6	2080.8	2099.9	2101.5	2093.5	2085.6	2087.2
7.5°	1909.3	1928.4	1936.3	1944.2	1974.4	2014.1	2039.5	2023.7	2036.4	2065.0	2022.1
10°	1814.0	1809.2	1807.6	1823.5	1880.7	1914.1	1956.9	1952.2	1983.9	2010.9	1976.0
12.5°	1696.4	1686.9	1715.5	1728.2	1779.0	1837.8	1871.2	1906.1	1937.9	1966.5	1926.8
15°	1609.1	1617.0	1628.1	1655.1	1691.7	1769.5	1818.7	1852.1	1909.3	1923.6	1907.7
17.5°	1539.2	1545.5	1561.4	1575.7	1621.8	1696.4	1774.3	1814.0	1874.3	1912.5	1863.2
20°	1540.8	1521.7	1521.7	1536.0	1561.4	1650.4	1733.0	1745.7	1828.3	1893.4	1860.0
22.5°	1542.4	1536.0	1521.7	1520.1	1531.2	1594.8	1679.0	1707.6	1796.5	1872.8	1833.0
25°	1564.6	1540.8	1542.4	1520.1	1524.9	1556.7	1623.4	1666.3	1767.9	1883.9	1818.7
27.5°	1583.7	1594.8	1572.5	1563.0	1536.0	1534.4	1590.0	1626.6	1753.6	1909.3	1828.3
30°	1626.6	1634.5	1634.5	1628.1	1602.7	1566.2	1578.9	1625.0	1725.0	1904.5	1812.4
32.5°	1698.0	1683.7	1702.8	1693.3	1659.9	1602.7	1613.8	1637.7	1742.5	1964.9	1837.8
35°	1721.9	1733.0	1758.4	1737.7	1726.6	1693.3	1671.0	1688.5	1767.9	2025.2	1875.9
37.5°	1794.9	1779.0	1796.5	1842.6	1853.7	1793.3	1750.4	1775.9	1863.2	2096.7	1910.9
40°	1801.3	1814.0	1845.8	1936.3	1947.4	1922.0	1887.1	1893.4	1958.5	2188.9	1998.2
42.5°	1833.0	1847.3	1912.5	1988.7	2049.1	2053.8	2028.4	2028.4	2084.0	2336.6	2095.1
45°	1895.0	1871.2	1955.4	2084.0	2171.4	2188.9	2222.2	2214.3	2258.7	2492.2	2276.2
47.5°	1918.8	1926.8	2018.9	2174.6	2274.6	2355.6	2411.2	2412.8	2435.1	2690.8	2511.3
50°	1996.7	1995.1	2106.3	2250.8	2398.5	2546.2	2654.3	2654.3	2652.7	2884.6	2713.0
52.5°	2099.9	2096.7	2182.5	2354.1	2546.2	2732.1	2875.1	2879.8	2916.4	3122.8	2944.9
55°	2268.3	2254.0	2336.6	2463.7	2694.0	2919.5	3167.3	3168.9	3140.3	3292.8	3111.7
57.5°	2409.6	2408.1	2476.4	2598.7	2859.2	3161.0	3448.5	3491.4	3400.8	3467.5	3245.2
60°	2373.1	2393.8	2535.1	2716.2	3033.9	3462.8	3751.9	3818.6	3674.0	3586.7	3345.2
62.5°	2146.0	2193.6	2347.7	2636.8	3181.6	3901.2	4169.6	4139.4	3817.0	3688.3	3467.5
65°	1544.0	1591.6	1782.2	2215.9	3010.1	4210.9	4719.2	4582.6	4071.1	3839.2	3631.1
67.5°	908.6	927.6	1046.8	1413.7	2250.8	4042.5	5386.4	5397.5	4571.5	4071.1	3913.9
70°	656.0	670.3	716.4	833.9	1246.9	3168.9	5758.1	6047.1	5265.6	4338.0	3764.6
72.5°	503.5	503.5	581.4	694.1	794.2	1898.2	5299.0	5878.8	5416.5	4082.3	3033.9
75°	362.2	371.7	455.9	597.2	732.3	953.1	3904.4	4665.2	4590.6	3308.7	2119.0
77.5°	208.1	212.8	320.9	500.4	687.8	654.4	2412.8	3162.6	3251.5	2071.3	918.1
80°	106.4	109.6	179.5	395.5	622.7	570.2	1439.1	2082.4	1766.3	602.0	212.8
82.5°	52.4	52.4	81.0	252.6	528.9	505.1	846.6	1150.0	625.8	138.2	89.0
85°	17.5	19.1	36.5	143.0	382.8	305.0	517.8	546.4	209.7	52.4	49.2
87.5°	4.8	6.4	9.5	52.4	166.8	200.1	308.2	349.5	85.8	20.6	23.8
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°	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1	2103.1
2.5°	2069.7	2058.6	2045.9	2014.1	1988.7	1955.4	1933.1	1915.6	1882.3	1888.6	1874.3
5°	2049.1	2028.4	1955.4	1885.5	1821.9	1725.0	1658.3	1615.4	1580.5	1545.5	1571.0
7.5°	2012.5	1963.3	1848.9	1718.7	1583.7	1456.6	1329.5	1253.3	1197.7	1146.8	1145.3
10°	1950.6	1871.2	1691.7	1521.7	1313.6	1146.8	984.8	857.8	775.2	714.8	713.2
12.5°	1880.7	1798.1	1572.5	1296.2	1056.3	821.2	627.4	492.4	414.6	366.9	360.6
15°	1836.2	1715.5	1423.2	1096.0	799.0	535.3	347.9	263.7	233.5	222.4	222.4
17.5°	1779.0	1640.8	1275.5	887.9	554.4	309.7	225.6	203.3	201.7	198.6	195.4
20°	1755.2	1583.7	1143.7	708.4	351.0	219.2	193.8	189.0	189.0	185.8	182.7
22.5°	1691.7	1501.1	1003.9	519.4	233.5	192.2	182.7	176.3	173.1	170.0	173.1
25°	1663.1	1442.3	872.0	359.0	190.6	171.6	166.8	160.4	155.7	154.1	154.1
27.5°	1644.0	1383.5	743.4	249.4	168.4	157.3	147.7	143.0	136.6	130.3	130.3
30°	1629.7	1337.5	619.5	184.3	150.9	139.8	131.8	120.7	112.8	106.4	106.4
32.5°	1610.7	1283.4	495.6	157.3	136.6	125.5	111.2	101.7	90.5	85.8	85.8
35°	1617.0	1246.9	389.2	139.8	122.3	108.0	95.3	82.6	71.5	66.7	65.1
37.5°	1629.7	1219.9	295.4	125.5	109.6	93.7	79.4	65.1	58.8	52.4	52.4
40°	1683.7	1212.0	217.6	116.0	100.1	82.6	66.7	54.0	47.7	42.9	41.3
42.5°	1774.3	1223.1	168.4	104.8	90.5	69.9	55.6	44.5	38.1	33.4	31.8
45°	1890.2	1266.0	138.2	98.5	79.4	58.8	44.5	36.5	28.6	25.4	25.4
47.5°	2058.6	1332.7	120.7	90.5	69.9	49.2	38.1	28.6	22.2	19.1	19.1
50°	2249.2	1408.9	106.4	81.0	60.4	41.3	30.2	22.2	15.9	14.3	14.3
52.5°	2439.8	1505.8	98.5	74.7	52.4	33.4	23.8	15.9	11.1	9.5	9.5
55°	2640.0	1591.6	89.0	69.9	42.9	27.0	17.5	9.5	6.4	4.8	4.8
57.5°	2779.7	1625.0	77.8	60.4	33.4	20.6	12.7	6.4	3.2	1.6	1.6
60°	2879.8	1629.7	66.7	49.2	25.4	15.9	7.9	3.2	1.6	0.0	0.0
62.5°	2964.0	1639.3	57.2	38.1	19.1	11.1	4.8	1.6	0.0	0.0	0.0
65°	3130.8	1631.3	46.1	30.2	12.7	6.4	3.2	0.0	0.0	0.0	0.0
67.5°	3262.6	1551.9	36.5	20.6	7.9	3.2	1.6	0.0	0.0	0.0	0.0
70°	2886.2	1183.4	28.6	14.3	4.8	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	2266.7	789.4	19.1	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	1486.8	392.3	14.3	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	578.2	103.2	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	139.8	34.9	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	60.4	12.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.5	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	3.2	1.6	1.6	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)