

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: P671033

Luminaire Tested: **CCP-SA-2D-840-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671033  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-840-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T4FT distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

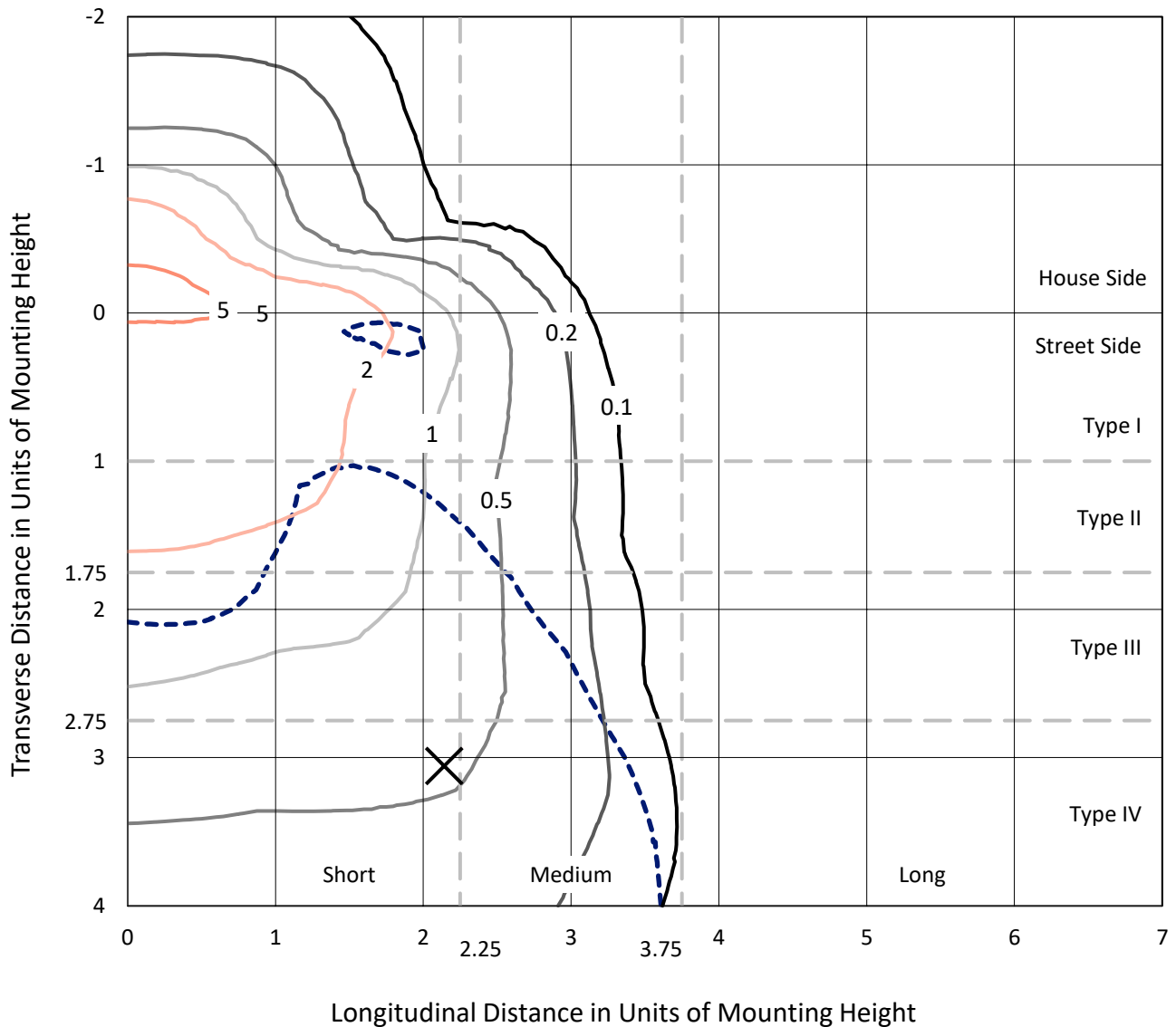
Lumens per Lamp: N/A  
Luminaire Lumens: 9503 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

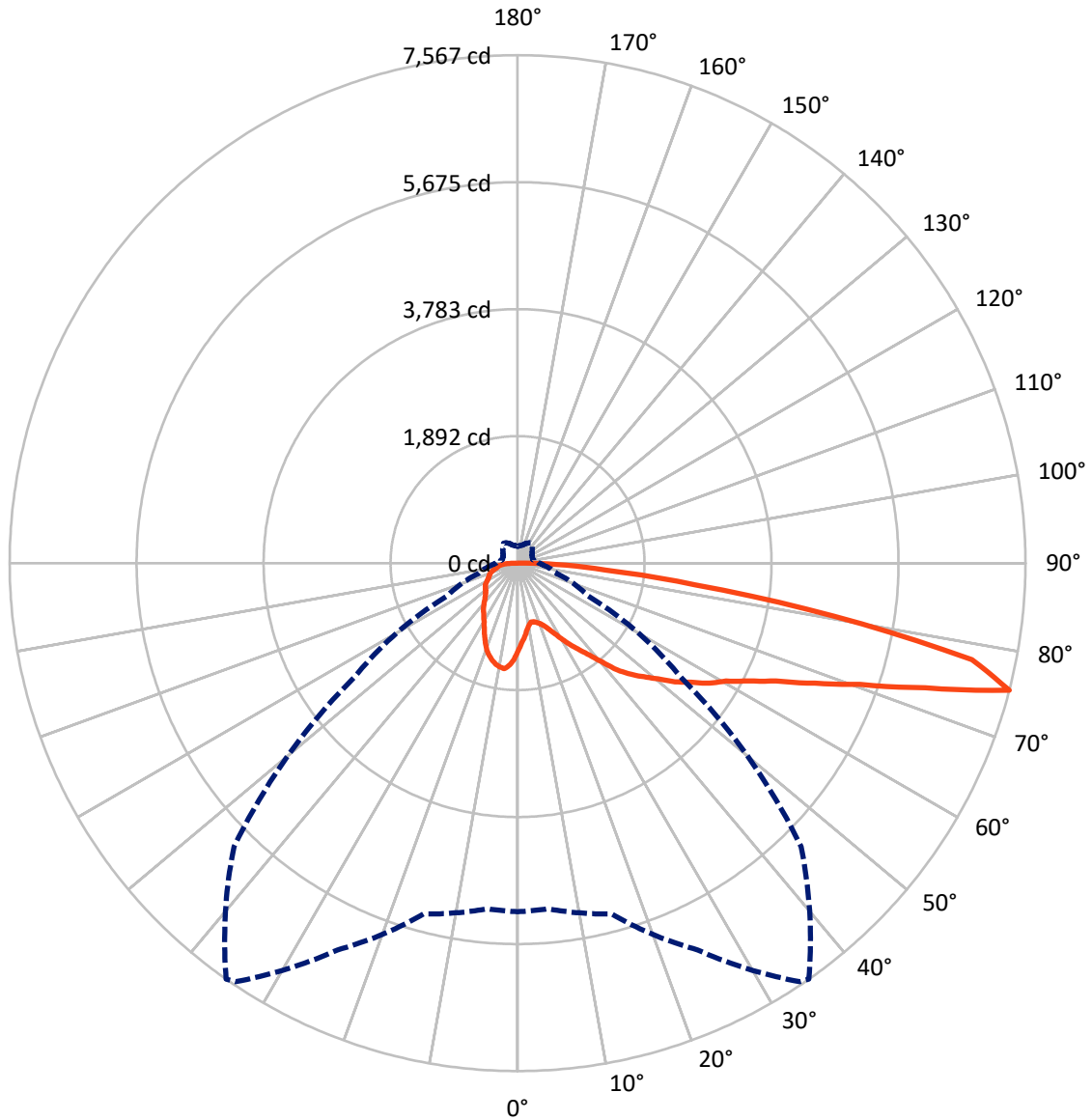
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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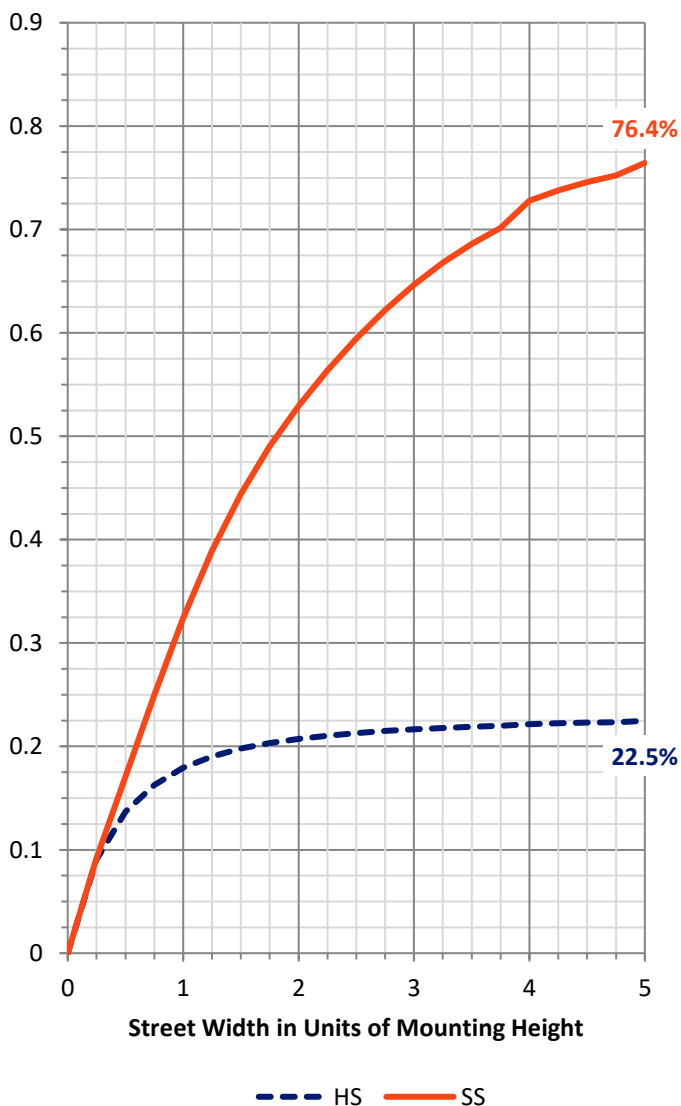
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2184.1	0.0	2184.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	7319.0	0.0	7319.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	9503.0	0.0	9503.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	1.3
10°-20°	360.1	3.8
20°-30°	597.5	6.3
30°-40°	885.6	9.3
40°-50°	1277.0	13.4
50°-60°	1756.0	18.5
60°-70°	2169.1	22.8
70°-80°	1984.4	20.9
80°-90°	349.3	3.7
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°	9503.0	100.0
0°-180°	9503.0	100.0



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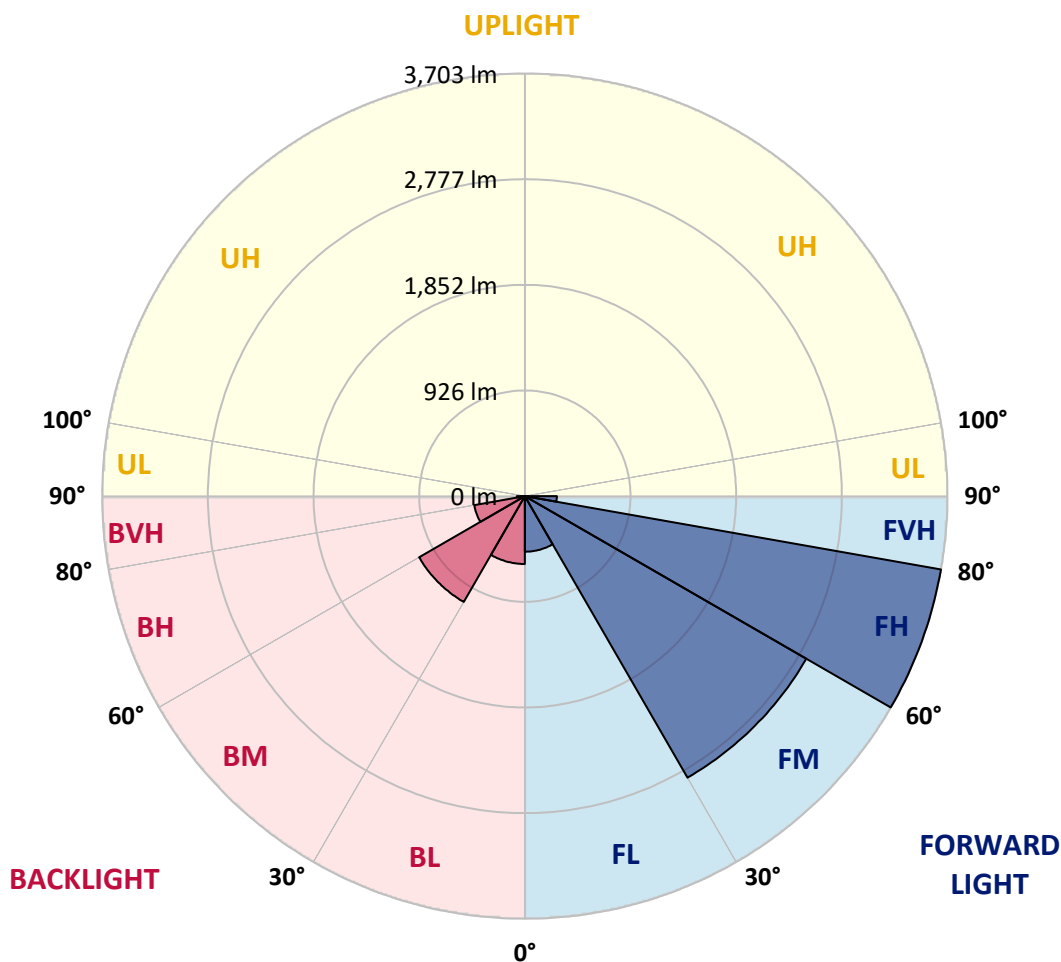
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.1	5.1			
FM (30°-60°)	2848.4	30.0			
FH (60°-80°)	3703.1	39.0			G2/5000
FVH (80°-90°)	280.4	3.0			G3/500
BL (0°-30°)	594.5	6.3	B2/1000		
BM (30°-60°)	1070.3	11.3	B2/2500		
BH (60°-80°)	450.4	4.7	B1/500		G1/500
BVH (80°-90°)	69.0	0.7			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0
2.5°	1179.5	1169.0	1179.5	1186.5	1186.5	1186.5	1197.0	1228.5	1249.5	1263.5	1288.0
5°	1057.0	1060.5	1067.5	1085.0	1095.5	1102.5	1120.0	1158.5	1190.0	1235.5	1288.0
7.5°	948.5	955.5	966.0	983.5	1008.0	1004.5	1043.0	1095.5	1155.0	1214.5	1291.5
10°	892.5	906.5	910.0	913.5	938.0	938.0	990.5	1050.0	1123.5	1200.5	1291.5
12.5°	903.0	903.0	892.5	889.0	903.0	899.5	945.0	1015.0	1095.5	1204.0	1305.5
15°	934.5	934.5	913.5	892.5	913.5	906.5	945.0	1001.0	1095.5	1207.5	1333.5
17.5°	976.5	980.0	955.5	920.5	927.5	931.0	959.0	1011.5	1095.5	1214.5	1372.0
20°	1060.5	1043.0	1004.5	948.5	973.0	962.5	1004.5	1050.0	1116.5	1242.5	1428.0
22.5°	1134.0	1134.0	1060.5	1011.5	1015.0	1015.0	1053.5	1092.0	1148.0	1281.0	1470.0
25°	1253.0	1246.0	1155.0	1081.5	1088.5	1092.0	1113.0	1158.5	1200.5	1302.0	1522.5
27.5°	1403.5	1386.0	1295.0	1211.0	1183.0	1193.5	1204.0	1239.0	1249.5	1337.0	1585.5
30°	1564.5	1540.0	1463.0	1330.0	1316.0	1319.5	1302.0	1323.0	1309.0	1393.0	1648.5
32.5°	1666.0	1666.0	1592.5	1494.5	1456.0	1456.0	1396.5	1410.5	1410.5	1445.5	1760.5
35°	1753.5	1746.5	1697.5	1624.0	1599.5	1585.5	1526.0	1547.0	1512.0	1547.0	1917.9
37.5°	1886.5	1865.5	1844.5	1795.5	1746.5	1736.0	1704.5	1718.5	1669.5	1652.0	2096.4
40°	2040.4	2029.9	2008.9	1987.9	1938.9	1935.4	1900.4	1914.4	1862.0	1795.5	2274.9
42.5°	2267.9	2236.4	2169.9	2152.4	2162.9	2176.9	2162.9	2138.4	2043.9	1959.9	2467.4
45°	2495.4	2446.4	2320.4	2292.4	2372.9	2362.4	2421.9	2411.4	2257.4	2124.4	2670.4
47.5°	2642.4	2600.4	2498.9	2481.4	2516.4	2530.4	2708.9	2677.4	2432.4	2274.9	2866.4
50°	2747.4	2750.9	2617.9	2663.4	2708.9	2708.9	2932.9	2929.4	2645.9	2460.4	3121.9
52.5°	2901.4	2852.4	2796.4	2838.4	2901.4	2936.4	3212.9	3135.9	2778.9	2617.9	3408.9
55°	2981.9	2960.9	2911.9	2985.4	3118.4	3135.9	3429.9	3370.4	2929.4	2803.4	3702.9
57.5°	3013.4	3030.9	3111.4	3142.9	3328.4	3373.9	3625.9	3541.9	3069.4	3034.4	3930.4
60°	3153.4	3128.9	3237.4	3363.4	3541.9	3566.4	3870.9	3688.9	3205.9	3184.9	4003.9
62.5°	3436.9	3373.9	3433.4	3583.9	3832.4	3863.9	4129.9	3884.9	3265.4	3286.4	4000.4
65°	3849.9	3804.4	3716.9	3835.9	4185.9	4231.4	4434.4	4052.9	3247.9	3251.4	3716.9
67.5°	4336.4	4262.9	4171.9	4245.4	4672.4	4777.4	4805.4	4126.4	3125.4	3055.4	3023.9
70°	4763.4	4714.4	4654.9	4780.9	5375.9	5414.4	5267.4	4080.9	2785.9	2453.4	2015.9
72.5°	5162.4	5137.9	5172.9	5645.4	6327.8	6352.3	5701.3	3793.9	2201.4	1487.5	938.0
75°	5193.9	5169.4	5410.9	6359.3	7521.3	7566.8	5970.8	2974.9	1162.0	605.5	395.5
77.5°	3517.4	3590.9	4042.4	5568.4	6908.8	6919.3	4882.4	1382.5	479.5	357.0	276.5
80°	864.5	959.0	1522.5	2880.4	4658.4	4773.9	2673.9	465.5	315.0	273.0	206.5
82.5°	315.0	343.0	619.5	1302.0	2617.9	2663.4	934.5	252.0	227.5	210.0	150.5
85°	150.5	154.0	294.0	640.5	1323.0	1309.0	336.0	150.5	164.5	143.5	91.0
87.5°	63.0	63.0	129.5	297.5	584.5	567.0	108.5	70.0	94.5	84.0	45.5
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°	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0
2.5°	1305.5	1312.5	1340.5	1361.5	1382.5	1400.0	1428.0	1428.0	1445.5	1445.5	1445.5
5°	1302.0	1340.5	1386.0	1435.0	1466.5	1498.0	1526.0	1529.5	1540.0	1554.0	1557.5
7.5°	1316.0	1354.5	1428.0	1498.0	1536.5	1550.5	1585.5	1575.0	1575.0	1575.0	1585.5
10°	1344.0	1386.0	1487.5	1550.5	1578.5	1582.0	1571.5	1564.5	1543.5	1536.5	1526.0
12.5°	1365.0	1438.5	1540.0	1589.0	1578.5	1568.0	1543.5	1508.5	1484.0	1477.0	1477.0
15°	1417.5	1491.0	1585.5	1603.0	1585.5	1529.5	1498.0	1459.5	1438.5	1407.0	1421.0
17.5°	1463.0	1547.0	1631.0	1610.0	1575.0	1487.5	1442.0	1386.0	1358.0	1323.0	1323.0
20°	1522.5	1599.5	1673.0	1617.0	1540.0	1445.5	1372.0	1302.0	1263.5	1228.5	1235.5
22.5°	1589.0	1659.0	1697.5	1589.0	1487.5	1379.0	1277.5	1211.0	1162.0	1141.0	1148.0
25°	1641.5	1718.5	1711.5	1543.5	1424.5	1295.0	1183.0	1120.0	1109.5	1088.5	1088.5
27.5°	1708.0	1788.5	1701.0	1487.5	1319.5	1162.0	1092.0	1067.5	1067.5	1057.0	1064.0
30°	1795.5	1851.5	1676.5	1407.0	1186.5	1043.0	1008.0	1022.0	1046.5	1036.0	1039.5
32.5°	1938.9	1931.9	1655.5	1316.0	1046.5	927.5	952.0	980.0	1001.0	1011.5	1018.5
35°	2078.9	2033.4	1631.0	1193.5	917.0	871.5	892.5	924.0	962.5	973.0	976.5
37.5°	2218.9	2138.4	1589.0	1043.0	836.5	822.5	843.5	861.0	892.5	899.5	906.5
40°	2365.9	2208.4	1515.5	896.0	770.0	770.0	784.0	787.5	805.0	815.5	822.5
42.5°	2495.4	2274.9	1382.5	759.5	700.0	724.5	728.0	721.0	707.0	714.0	717.5
45°	2652.9	2348.4	1228.5	661.5	647.5	679.0	686.0	658.0	633.5	619.5	612.5
47.5°	2806.9	2425.4	1095.5	581.0	598.5	647.5	647.5	616.0	574.0	539.0	525.0
50°	2946.9	2502.4	987.0	532.0	549.5	623.0	630.0	570.5	525.0	483.0	476.0
52.5°	3181.4	2631.9	875.0	493.5	521.5	605.5	602.0	549.5	490.0	444.5	441.0
55°	3387.9	2761.4	728.0	455.0	493.5	581.0	591.5	528.5	448.0	406.0	399.0
57.5°	3538.4	2792.9	581.0	416.5	465.5	553.0	567.0	486.5	420.0	385.0	381.5
60°	3566.4	2670.4	472.5	385.0	427.0	514.5	525.0	462.0	399.0	371.0	364.0
62.5°	3436.9	2435.9	402.5	357.0	395.5	476.0	497.0	434.0	378.0	353.5	350.0
65°	3142.9	2092.9	353.5	332.5	374.5	448.0	472.5	413.0	360.5	339.5	336.0
67.5°	2488.4	1606.5	315.0	315.0	346.5	420.0	455.0	399.0	343.0	329.0	325.5
70°	1627.5	966.0	287.0	290.5	325.5	395.5	434.0	381.5	322.0	318.5	311.5
72.5°	700.0	444.5	255.5	266.0	294.0	353.5	402.5	357.0	297.5	287.0	276.5
75°	322.0	269.5	231.0	238.0	262.5	311.5	364.0	329.0	276.5	259.0	248.5
77.5°	227.5	196.0	192.5	206.5	224.0	269.5	322.0	308.0	255.5	241.5	234.5
80°	168.0	150.5	161.0	175.0	185.5	248.5	304.5	283.5	234.5	213.5	203.0
82.5°	119.0	112.0	126.0	140.0	150.5	217.0	280.0	248.5	196.0	178.5	161.0
85°	70.0	73.5	87.5	94.5	105.0	161.0	234.5	199.5	150.5	115.5	112.0
87.5°	31.5	31.5	42.0	45.5	52.5	94.5	157.5	126.0	94.5	73.5	70.0
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)