

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: P670739

Luminaire Tested: **CCP-SA-1D-840-U-T2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670739  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-840-U-T2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2 distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

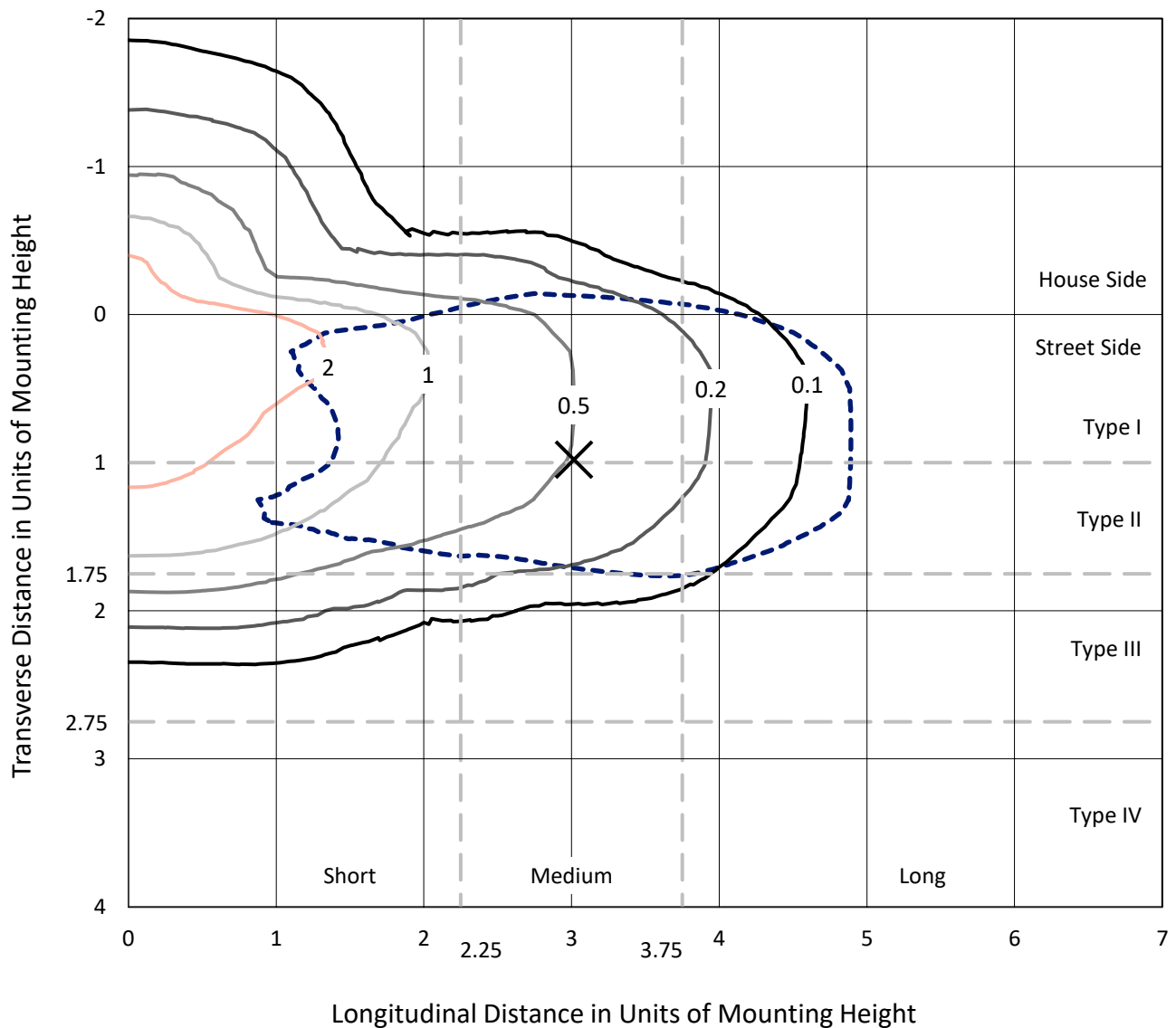
Lumens per Lamp: N/A  
Luminaire Lumens: 4743 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

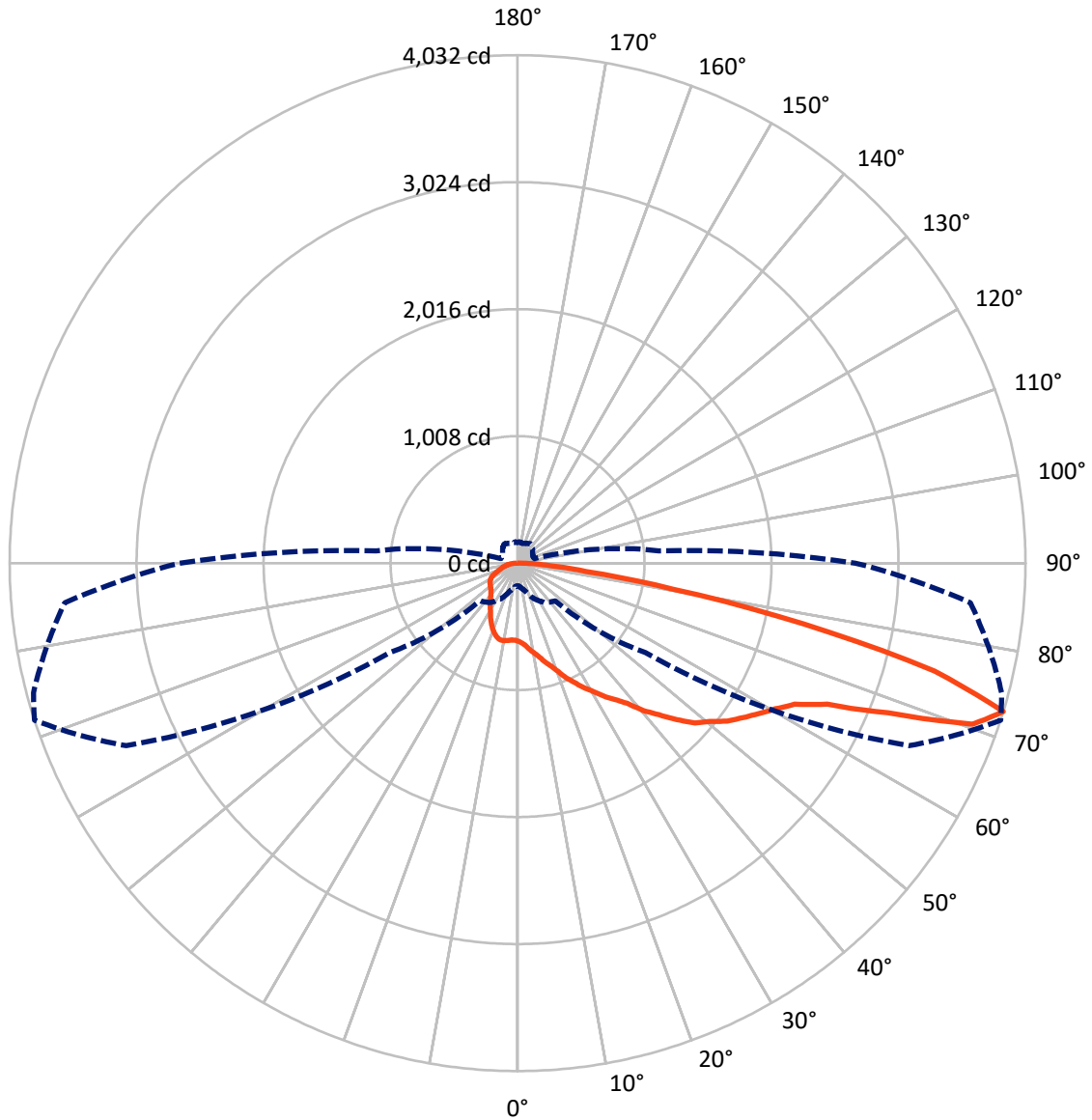
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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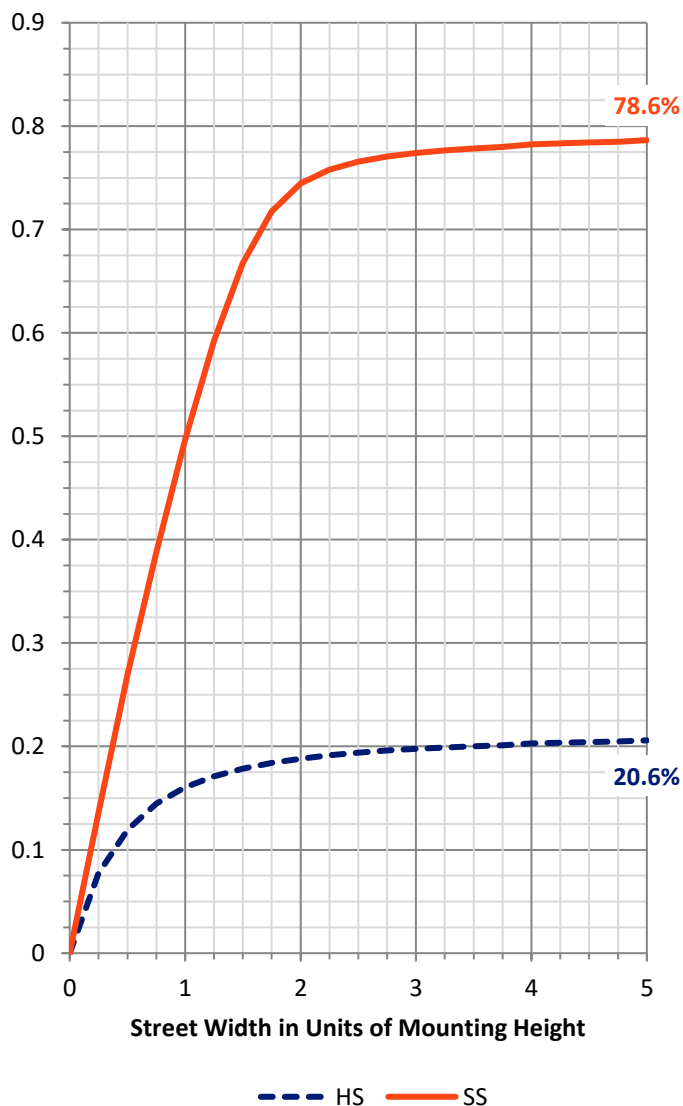
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	998.2	0.0	998.2
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	3744.8	0.0	3744.8
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	4743.0	0.0	4743.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.3	1.3
10°-20°	190.3	4.0
20°-30°	329.4	6.9
30°-40°	486.5	10.3
40°-50°	723.4	15.3
50°-60°	991.8	20.9
60°-70°	1075.8	22.7
70°-80°	758.5	16.0
80°-90°	126.0	2.7
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°	4743.0	100.0
0°-180°	4743.0	100.0



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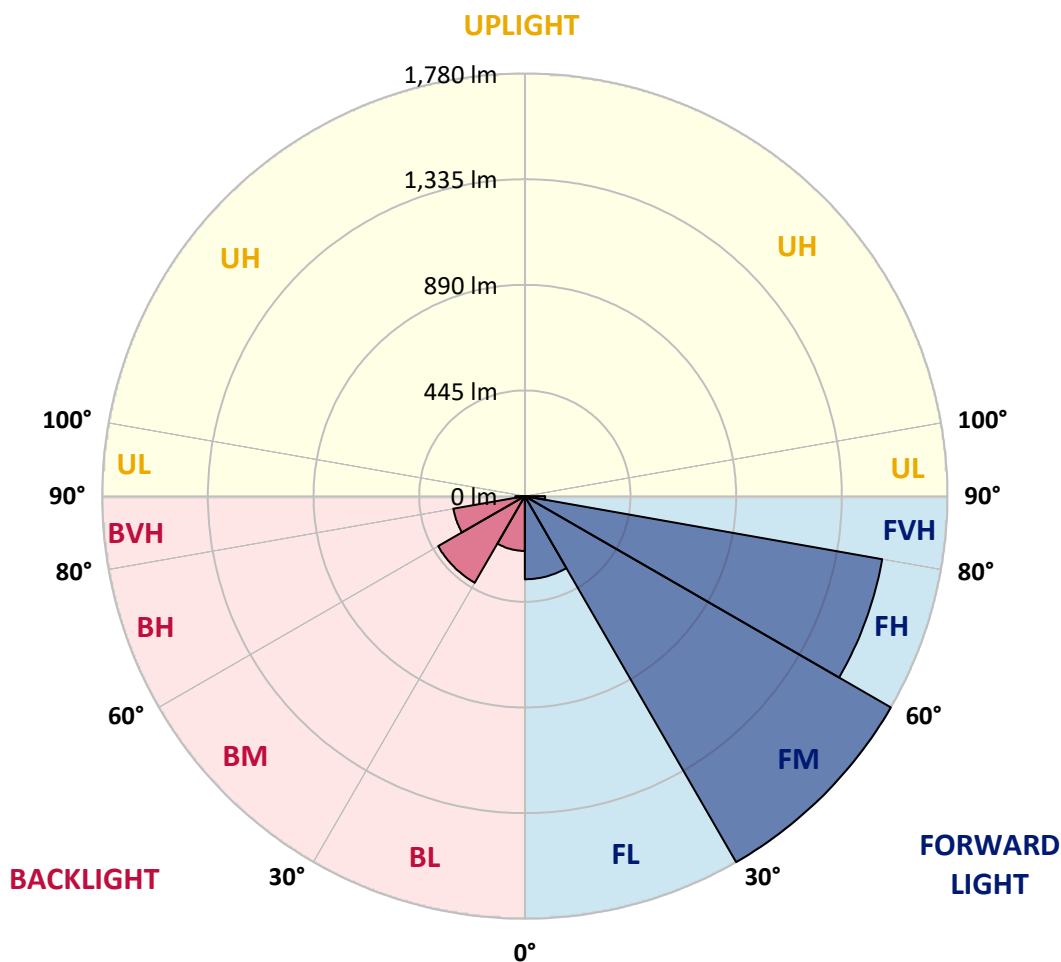
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.2	7.4			
FM (30°-60°)	1780.1	37.5			
FH (60°-80°)	1528.5	32.2			G1/1800
FVH (80°-90°)	85.9	1.8			G1/100
BL (0°-30°)	230.7	4.9	B1/500		
BM (30°-60°)	421.6	8.9	B1/1000		
BH (60°-80°)	305.8	6.4	B1/500		G1/500
BVH (80°-90°)	40.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6
2.5°	668.6	668.6	663.3	661.6	661.6	647.6	649.3	640.6	633.6	633.6	626.6
5°	703.6	700.1	700.1	700.1	691.3	686.1	684.3	668.6	656.3	658.1	637.1
7.5°	712.3	714.1	715.8	724.6	719.3	722.8	719.3	701.8	693.1	684.3	665.1
10°	717.6	721.1	721.1	733.3	733.3	742.1	747.3	740.3	724.6	715.8	684.3
12.5°	729.8	724.6	731.6	740.3	749.1	764.8	780.6	773.6	763.1	752.6	717.6
15°	729.8	731.6	736.8	750.8	764.8	780.6	808.6	819.1	813.8	794.6	757.8
17.5°	708.8	703.6	728.1	754.3	780.6	799.8	836.6	861.1	857.6	850.6	794.6
20°	710.6	715.8	724.6	747.3	789.3	824.3	869.8	910.1	918.8	915.3	843.6
22.5°	742.1	743.8	752.6	763.1	796.3	841.8	910.1	974.9	990.6	981.9	897.8
25°	773.6	787.6	787.6	794.6	806.8	854.1	936.4	1027.4	1050.1	1051.9	953.9
27.5°	824.3	827.8	838.3	841.8	852.3	880.3	966.1	1065.9	1118.4	1111.4	1004.6
30°	883.8	885.6	892.6	889.1	890.8	925.9	994.1	1109.6	1181.4	1183.1	1058.9
32.5°	953.9	967.9	971.4	948.6	952.1	960.9	1037.9	1162.1	1260.1	1247.9	1106.1
35°	1057.1	1062.4	1051.9	1041.4	1015.1	1009.9	1083.4	1214.6	1328.4	1342.4	1176.1
37.5°	1184.9	1198.9	1184.9	1128.9	1100.9	1079.9	1139.4	1272.4	1410.7	1457.9	1246.1
40°	1303.9	1302.1	1288.1	1237.4	1188.4	1172.6	1219.9	1352.9	1538.4	1583.9	1347.6
42.5°	1400.2	1394.9	1386.2	1347.6	1302.1	1275.9	1312.6	1436.9	1645.2	1732.7	1464.9
45°	1484.2	1477.2	1478.9	1435.2	1391.4	1405.4	1405.4	1533.2	1771.2	1879.7	1599.7
47.5°	1562.9	1566.4	1561.2	1527.9	1494.7	1531.4	1512.2	1643.4	1895.5	2016.2	1713.4
50°	1653.9	1660.9	1643.4	1622.4	1592.7	1629.4	1604.9	1746.7	1976.0	2140.5	1850.0
52.5°	1739.7	1746.7	1762.4	1736.2	1706.4	1736.2	1680.2	1842.9	2082.7	2261.2	1955.0
55°	1760.7	1757.2	1844.7	1872.7	1888.5	1799.2	1746.7	1925.2	2166.7	2338.3	2074.0
57.5°	1664.4	1673.2	1792.2	1872.7	2040.7	1963.7	1821.9	2021.5	2254.2	2439.8	2184.2
60°	1424.7	1429.9	1578.7	1769.4	2014.5	2117.7	2025.0	2145.7	2350.5	2525.5	2308.5
62.5°	952.1	992.4	1177.9	1477.2	1828.9	2159.7	2348.8	2355.8	2467.8	2634.0	2478.3
65°	502.3	521.6	666.8	908.3	1386.2	2014.5	2653.3	2772.3	2702.3	2833.6	2723.3
67.5°	329.0	336.0	414.8	551.3	799.8	1470.2	2688.3	3495.1	3173.1	3213.3	3115.3
70°	245.0	248.5	306.3	407.8	495.3	785.8	2203.5	3832.9	3831.2	3724.4	3580.9
72.5°	180.3	185.5	225.8	311.5	381.5	423.5	1239.1	3428.6	4032.4	3978.2	3608.9
75°	141.8	145.3	166.3	241.5	308.0	278.3	628.3	2539.5	3419.9	3680.6	3302.6
77.5°	115.5	119.0	131.3	175.0	246.8	215.3	301.0	1638.2	2319.0	2649.8	2527.3
80°	96.3	96.3	105.0	124.3	190.8	162.8	178.5	920.6	1249.6	1379.1	1146.4
82.5°	82.3	80.5	87.5	91.0	141.8	117.3	115.5	416.5	549.6	582.8	430.5
85°	52.5	54.3	82.3	78.8	92.8	80.5	64.8	197.8	259.0	264.3	161.0
87.5°	21.0	21.0	35.0	43.8	52.5	49.0	31.5	89.3	113.8	113.8	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°	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6
2.5°	624.8	617.8	612.6	609.1	600.3	591.6	593.3	591.6	584.6	581.1	581.1
5°	631.8	624.8	616.1	602.1	593.3	582.8	586.3	579.3	572.3	577.6	568.8
7.5°	649.3	637.1	624.8	603.8	589.8	574.1	567.1	563.6	558.3	554.8	554.8
10°	673.8	656.3	633.6	602.1	579.3	554.8	551.3	544.3	539.1	539.1	537.3
12.5°	698.3	679.1	640.6	589.8	551.3	533.8	532.1	533.8	537.3	539.1	540.8
15°	729.8	698.3	638.8	567.1	528.6	521.6	530.3	537.3	544.3	551.3	549.6
17.5°	759.6	722.8	623.1	539.1	509.3	511.1	526.8	540.8	554.8	561.8	563.6
20°	799.8	745.6	600.3	505.8	490.1	505.8	526.8	544.3	560.1	568.8	570.6
22.5°	845.3	771.8	570.6	476.1	474.3	490.1	511.1	537.3	554.8	570.6	568.8
25°	885.6	789.3	532.1	451.5	455.0	465.6	490.1	518.1	535.6	553.1	547.8
27.5°	911.8	792.8	491.8	434.0	434.0	444.5	467.3	484.8	500.6	514.6	516.3
30°	941.6	785.8	446.3	411.3	411.3	425.3	434.0	444.5	453.3	456.8	460.3
32.5°	976.6	770.1	418.3	393.8	393.8	404.3	409.5	406.0	404.3	395.5	400.8
35°	1009.9	747.3	386.8	371.0	378.0	383.3	381.5	371.0	360.5	344.8	339.5
37.5°	1050.1	724.6	358.8	346.5	358.8	360.5	360.5	348.3	334.3	315.0	315.0
40°	1111.4	707.1	336.0	330.8	343.0	341.3	332.5	323.8	329.0	318.5	318.5
42.5°	1176.1	700.1	315.0	316.8	322.0	323.8	315.0	304.5	325.5	313.3	315.0
45°	1256.6	705.3	301.0	299.3	311.5	309.8	304.5	295.8	302.8	271.3	262.5
47.5°	1331.9	715.8	294.0	287.0	301.0	304.5	297.5	278.3	267.8	248.5	245.0
50°	1400.2	738.6	287.0	273.0	287.0	294.0	281.8	260.8	248.5	236.3	236.3
52.5°	1464.9	771.8	283.5	257.3	269.5	278.3	271.3	250.3	236.3	231.0	225.8
55°	1531.4	801.6	278.3	246.8	250.3	267.8	266.0	238.0	224.0	224.0	222.3
57.5°	1625.9	841.8	271.3	229.3	236.3	255.5	255.5	232.8	217.0	218.8	220.5
60°	1722.2	889.1	264.3	211.8	217.0	243.3	246.8	225.8	211.8	213.5	211.8
62.5°	1876.2	976.6	250.3	190.8	201.3	227.5	236.3	217.0	204.8	208.3	208.3
65°	2109.0	1127.1	220.5	173.3	185.5	213.5	225.8	208.3	194.3	204.8	201.3
67.5°	2483.5	1333.6	185.5	159.3	175.0	199.5	213.5	197.8	185.5	201.3	196.0
70°	2819.6	1435.2	159.3	147.0	159.3	183.8	199.5	187.3	175.0	190.8	183.8
72.5°	2683.0	1125.4	138.3	133.0	145.3	166.3	185.5	173.3	161.0	169.8	162.8
75°	2315.5	896.1	120.8	119.0	129.5	150.5	169.8	161.0	148.8	152.3	148.8
77.5°	1755.4	740.3	103.3	101.5	110.3	134.8	152.3	145.3	133.0	131.3	131.3
80°	784.1	364.0	85.8	85.8	91.0	115.5	129.5	126.0	113.8	112.0	110.3
82.5°	257.3	138.3	70.0	66.5	73.5	96.3	115.5	112.0	99.8	96.3	92.8
85°	103.3	66.5	50.8	50.8	57.8	80.5	103.3	96.3	80.5	71.8	71.8
87.5°	35.0	28.0	26.3	26.3	36.8	54.3	77.0	64.8	57.8	50.8	52.5
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)