

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: P670943

Luminaire Tested: **CCP-SA-2B-730-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670943  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-730-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4FT distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

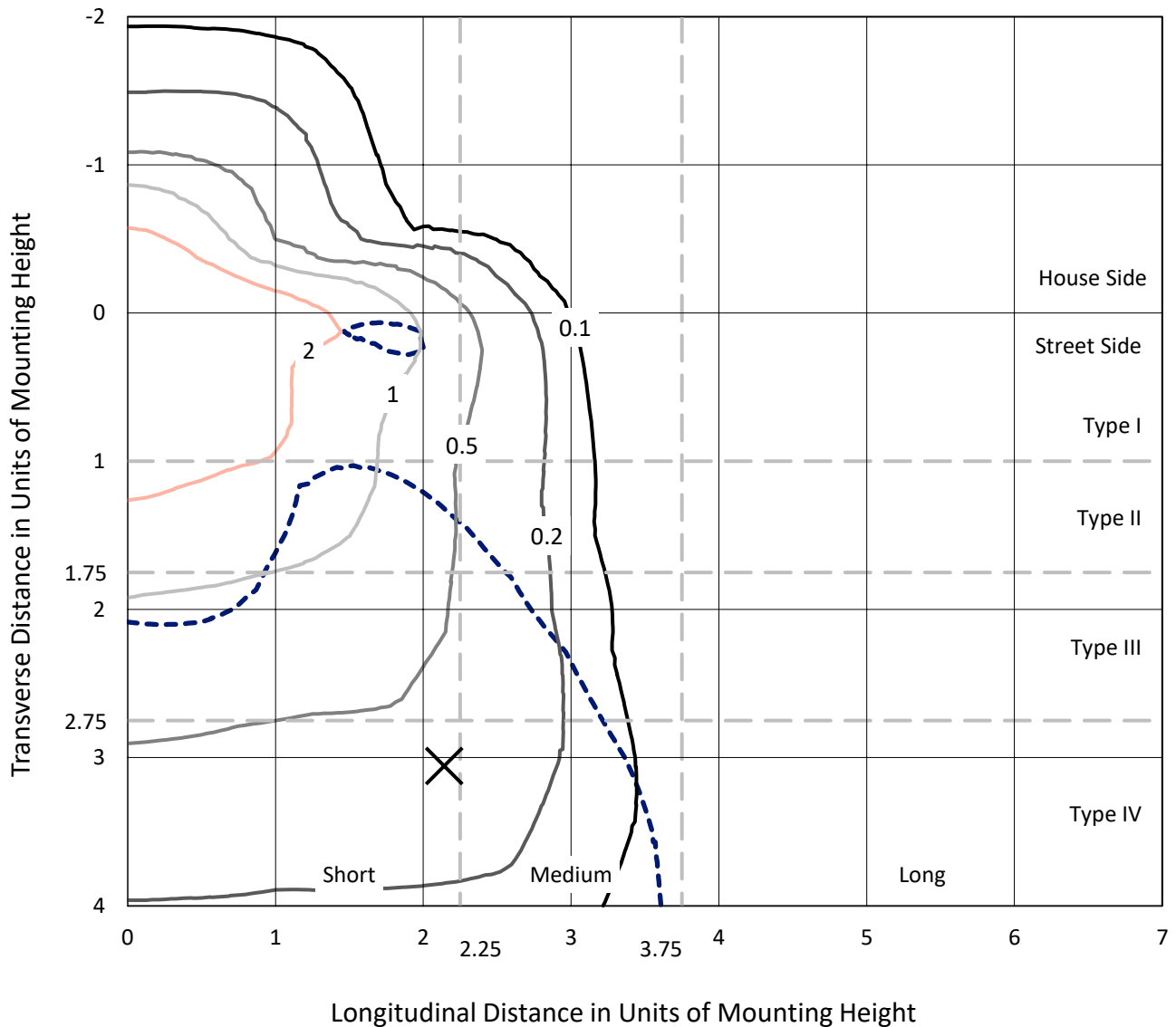
Lumens per Lamp: N/A  
Luminaire Lumens: 6284.9 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

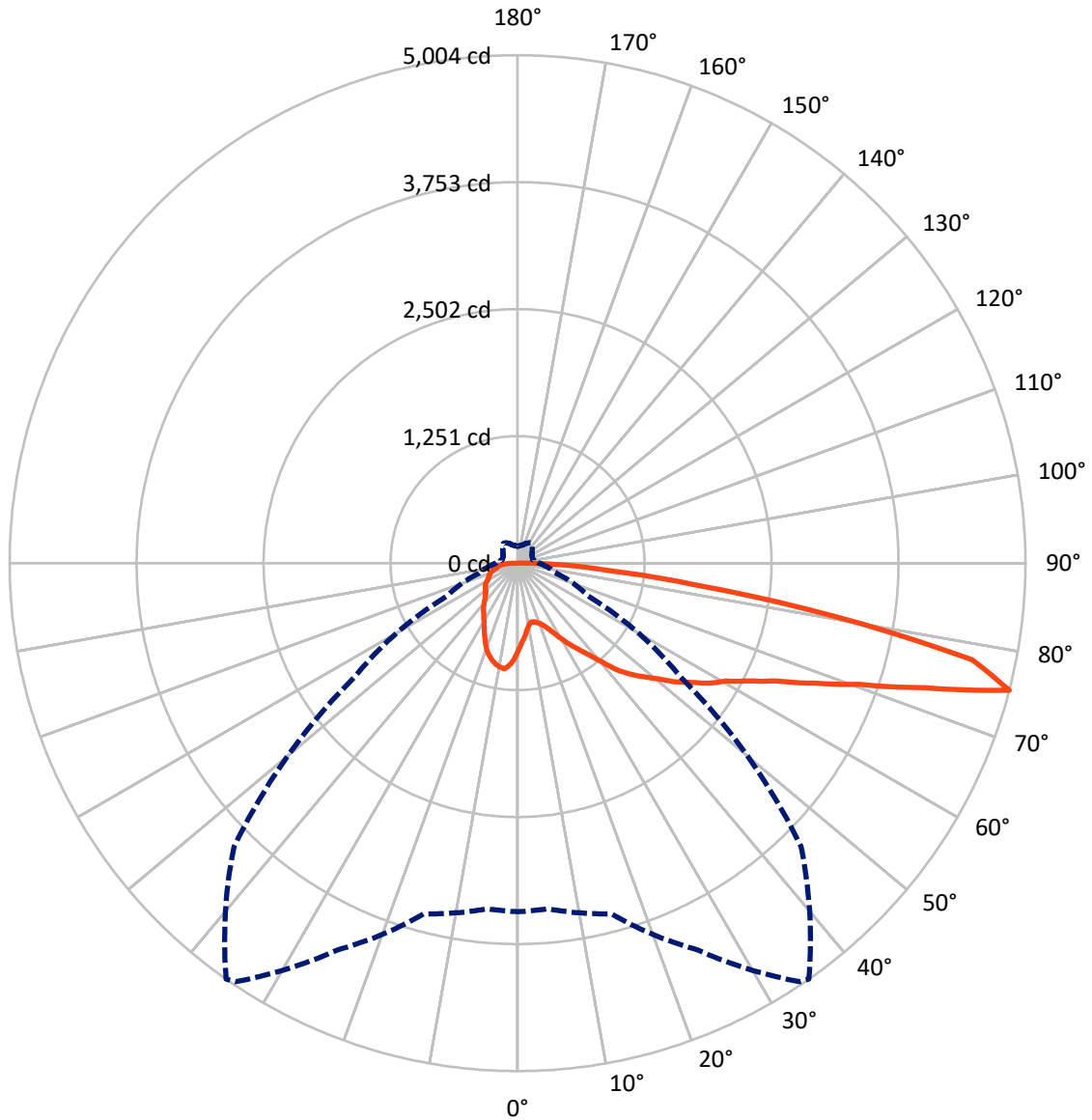
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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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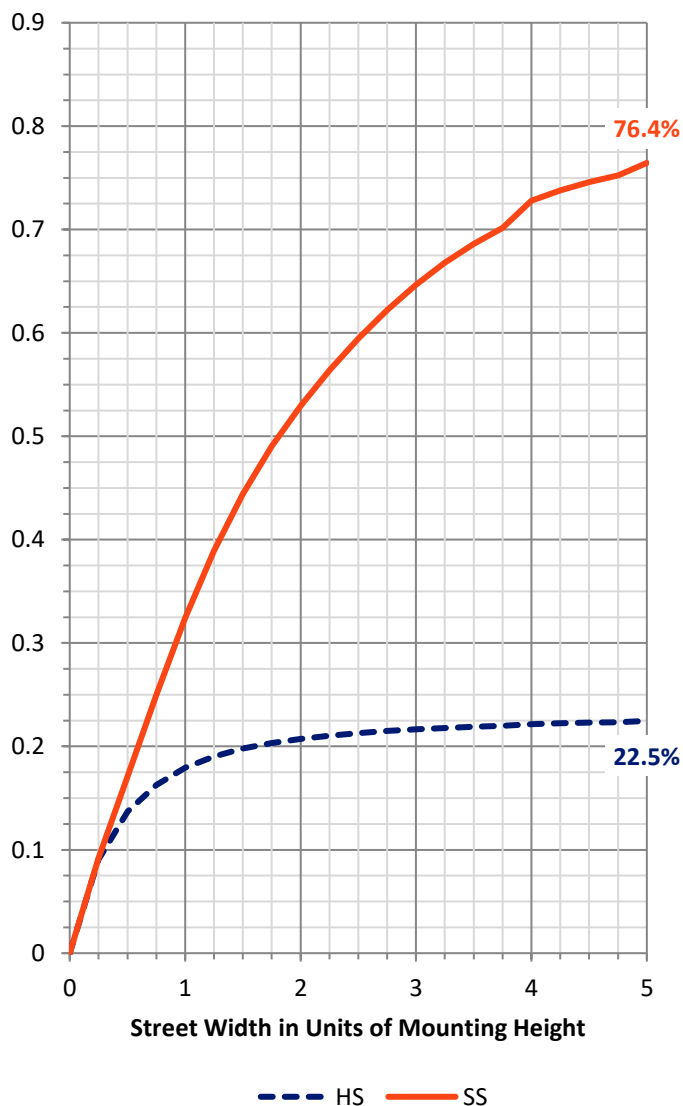
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1444.4	0.0	1444.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4840.5	0.0	4840.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	6284.9	0.0	6284.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.0	1.3
10°-20°	238.1	3.8
20°-30°	395.1	6.3
30°-40°	585.7	9.3
40°-50°	844.5	13.4
50°-60°	1161.4	18.5
60°-70°	1434.5	22.8
70°-80°	1312.4	20.9
80°-90°	231.0	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°	6284.9	100.0
0°-180°	6284.9	100.0



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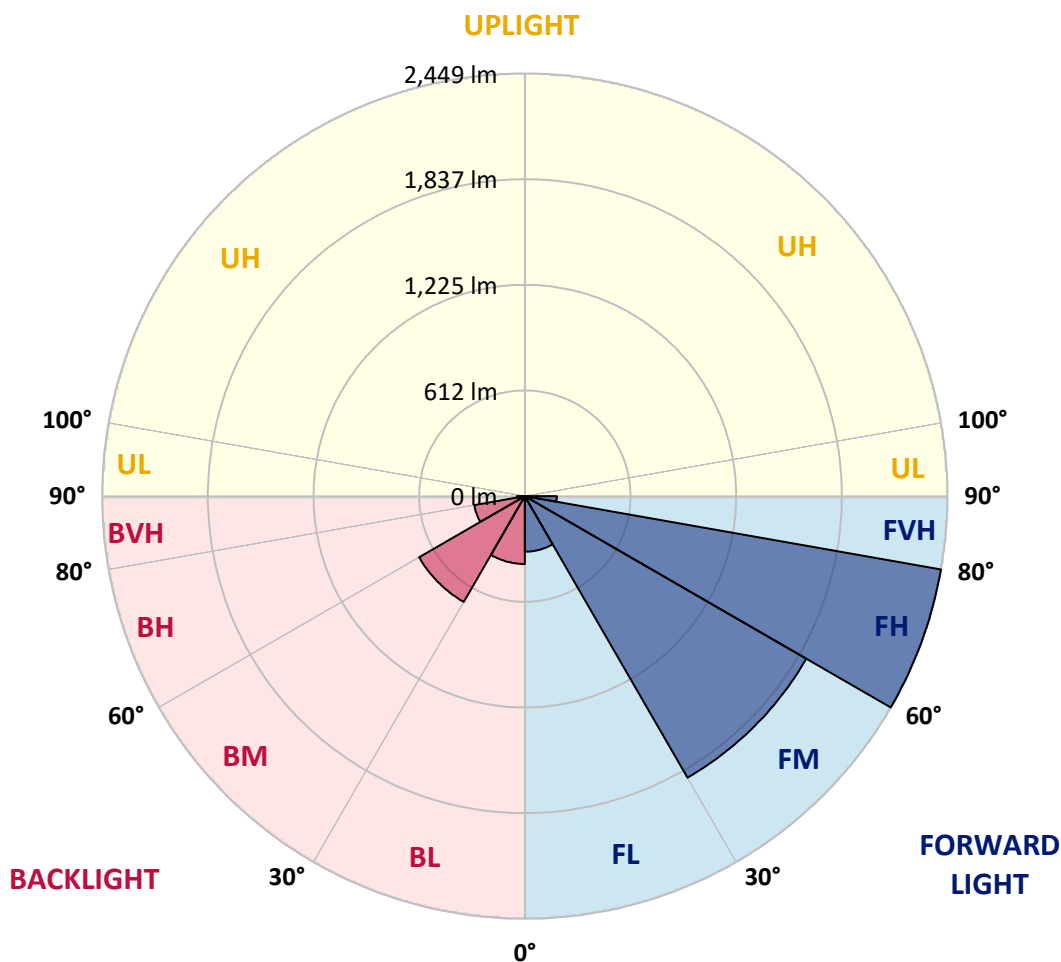
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.1	5.1			
FM	(30°-60°)	1883.8	30.0			
FH	(60°-80°)	2449.1	39.0			G2/5000
FVH	(80°-90°)	185.4	3.0			G2/225
BL	(0°-30°)	393.2	6.3	B1/500		
BM	(30°-60°)	707.8	11.3	B1/1000		
BH	(60°-80°)	297.9	4.7	B1/500		G1/500
BVH	(80°-90°)	45.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	780.1	773.1	780.1	784.7	784.7	784.7	791.6	812.5	826.3	835.6	851.8
5°	699.0	701.4	706.0	717.6	724.5	729.1	740.7	766.2	787.0	817.1	851.8
7.5°	627.3	631.9	638.9	650.4	666.6	664.3	689.8	724.5	763.9	803.2	854.1
10°	590.2	599.5	601.8	604.1	620.3	620.3	655.1	694.4	743.0	793.9	854.1
12.5°	597.2	597.2	590.2	587.9	597.2	594.9	625.0	671.3	724.5	796.3	863.4
15°	618.0	618.0	604.1	590.2	604.1	599.5	625.0	662.0	724.5	798.6	881.9
17.5°	645.8	648.1	631.9	608.8	613.4	615.7	634.2	668.9	724.5	803.2	907.4
20°	701.4	689.8	664.3	627.3	643.5	636.5	664.3	694.4	738.4	821.7	944.4
22.5°	750.0	750.0	701.4	668.9	671.3	671.3	696.7	722.2	759.2	847.2	972.2
25°	828.7	824.0	763.9	715.2	719.9	722.2	736.1	766.2	793.9	861.1	1006.9
27.5°	928.2	916.6	856.4	800.9	782.4	789.3	796.3	819.4	826.3	884.2	1048.6
30°	1034.7	1018.5	967.5	879.6	870.3	872.6	861.1	875.0	865.7	921.3	1090.2
32.5°	1101.8	1101.8	1053.2	988.4	962.9	962.9	923.6	932.8	932.8	956.0	1164.3
35°	1159.7	1155.0	1122.6	1074.0	1057.8	1048.6	1009.2	1023.1	1000.0	1023.1	1268.5
37.5°	1247.6	1233.7	1219.8	1187.4	1155.0	1148.1	1127.3	1136.5	1104.1	1092.5	1386.5
40°	1349.5	1342.5	1328.6	1314.8	1282.3	1280.0	1256.9	1266.1	1231.4	1187.4	1504.6
42.5°	1499.9	1479.1	1435.1	1423.5	1430.5	1439.7	1430.5	1414.3	1351.8	1296.2	1631.9
45°	1650.4	1618.0	1534.6	1516.1	1569.4	1562.4	1601.8	1594.8	1493.0	1405.0	1766.1
47.5°	1747.6	1719.8	1652.7	1641.1	1664.3	1673.5	1791.6	1770.7	1608.7	1504.6	1895.7
50°	1817.0	1819.4	1731.4	1761.5	1791.6	1791.6	1939.7	1937.4	1749.9	1627.2	2064.7
52.5°	1918.9	1886.5	1849.4	1877.2	1918.9	1942.0	2124.9	2074.0	1837.9	1731.4	2254.5
55°	1972.1	1958.2	1925.8	1974.4	2062.4	2074.0	2268.4	2229.1	1937.4	1854.1	2449.0
57.5°	1993.0	2004.5	2057.8	2078.6	2201.3	2231.4	2398.0	2342.5	2030.0	2006.8	2599.4
60°	2085.5	2069.3	2141.1	2224.4	2342.5	2358.7	2560.1	2439.7	2120.3	2106.4	2648.0
62.5°	2273.0	2231.4	2270.7	2370.3	2534.6	2555.4	2731.3	2569.3	2159.6	2173.5	2645.7
65°	2546.2	2516.1	2458.2	2536.9	2768.4	2798.5	2932.7	2680.4	2148.0	2150.4	2458.2
67.5°	2867.9	2819.3	2759.1	2807.7	3090.1	3159.6	3178.1	2729.0	2067.0	2020.7	1999.9
70°	3150.3	3117.9	3078.6	3161.9	3555.4	3580.8	3483.6	2698.9	1842.5	1622.6	1333.3
72.5°	3414.2	3398.0	3421.1	3733.6	4185.0	4201.2	3770.6	2509.1	1455.9	983.7	620.3
75°	3435.0	3418.8	3578.5	4205.8	4974.3	5004.4	3948.9	1967.5	768.5	400.4	261.6
77.5°	2326.3	2374.9	2673.5	3682.7	4569.2	4576.2	3229.0	914.3	317.1	236.1	182.9
80°	571.7	634.2	1006.9	1905.0	3080.9	3157.3	1768.4	307.9	208.3	180.5	136.6
82.5°	208.3	226.8	409.7	861.1	1731.4	1761.5	618.0	166.7	150.5	138.9	99.5
85°	99.5	101.8	194.4	423.6	875.0	865.7	222.2	99.5	108.8	94.9	60.2
87.5°	41.7	41.7	85.6	196.7	386.6	375.0	71.8	46.3	62.5	55.6	30.1
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°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	863.4	868.0	886.5	900.4	914.3	925.9	944.4	944.4	956.0	956.0	956.0
5°	861.1	886.5	916.6	949.0	969.9	990.7	1009.2	1011.5	1018.5	1027.7	1030.0
7.5°	870.3	895.8	944.4	990.7	1016.2	1025.4	1048.6	1041.6	1041.6	1041.6	1048.6
10°	888.8	916.6	983.7	1025.4	1043.9	1046.2	1039.3	1034.7	1020.8	1016.2	1009.2
12.5°	902.7	951.3	1018.5	1050.9	1043.9	1037.0	1020.8	997.6	981.4	976.8	976.8
15°	937.5	986.1	1048.6	1060.1	1048.6	1011.5	990.7	965.2	951.3	930.5	939.8
17.5°	967.5	1023.1	1078.7	1064.8	1041.6	983.7	953.7	916.6	898.1	875.0	875.0
20°	1006.9	1057.8	1106.4	1069.4	1018.5	956.0	907.4	861.1	835.6	812.5	817.1
22.5°	1050.9	1097.2	1122.6	1050.9	983.7	912.0	844.9	800.9	768.5	754.6	759.2
25°	1085.6	1136.5	1131.9	1020.8	942.1	856.4	782.4	740.7	733.8	719.9	719.9
27.5°	1129.6	1182.8	1124.9	983.7	872.6	768.5	722.2	706.0	706.0	699.0	703.7
30°	1187.4	1224.5	1108.7	930.5	784.7	689.8	666.6	675.9	692.1	685.2	687.5
32.5°	1282.3	1277.7	1094.9	870.3	692.1	613.4	629.6	648.1	662.0	668.9	673.6
35°	1374.9	1344.8	1078.7	789.3	606.5	576.4	590.2	611.1	636.5	643.5	645.8
37.5°	1467.5	1414.3	1050.9	689.8	553.2	544.0	557.8	569.4	590.2	594.9	599.5
40°	1564.7	1460.6	1002.3	592.6	509.2	509.2	518.5	520.8	532.4	539.3	544.0
42.5°	1650.4	1504.6	914.3	502.3	462.9	479.1	481.5	476.8	467.6	472.2	474.5
45°	1754.5	1553.2	812.5	437.5	428.2	449.1	453.7	435.2	419.0	409.7	405.1
47.5°	1856.4	1604.1	724.5	384.2	395.8	428.2	428.2	407.4	379.6	356.5	347.2
50°	1949.0	1655.0	652.7	351.8	363.4	412.0	416.6	377.3	347.2	319.4	314.8
52.5°	2104.1	1740.7	578.7	326.4	344.9	400.4	398.1	363.4	324.1	294.0	291.7
55°	2240.6	1826.3	481.5	300.9	326.4	384.2	391.2	349.5	296.3	268.5	263.9
57.5°	2340.2	1847.1	384.2	275.4	307.9	365.7	375.0	321.7	277.8	254.6	252.3
60°	2358.7	1766.1	312.5	254.6	282.4	340.3	347.2	305.5	263.9	245.4	240.7
62.5°	2273.0	1611.0	266.2	236.1	261.6	314.8	328.7	287.0	250.0	233.8	231.5
65°	2078.6	1384.2	233.8	219.9	247.7	296.3	312.5	273.1	238.4	224.5	222.2
67.5°	1645.8	1062.4	208.3	208.3	229.2	277.8	300.9	263.9	226.8	217.6	215.3
70°	1076.3	638.9	189.8	192.1	215.3	261.6	287.0	252.3	213.0	210.6	206.0
72.5°	462.9	294.0	169.0	175.9	194.4	233.8	266.2	236.1	196.7	189.8	182.9
75°	213.0	178.2	152.8	157.4	173.6	206.0	240.7	217.6	182.9	171.3	164.3
77.5°	150.5	129.6	127.3	136.6	148.1	178.2	213.0	203.7	169.0	159.7	155.1
80°	111.1	99.5	106.5	115.7	122.7	164.3	201.4	187.5	155.1	141.2	134.3
82.5°	78.7	74.1	83.3	92.6	99.5	143.5	185.2	164.3	129.6	118.0	106.5
85°	46.3	48.6	57.9	62.5	69.4	106.5	155.1	131.9	99.5	76.4	74.1
87.5°	20.8	20.8	27.8	30.1	34.7	62.5	104.2	83.3	62.5	48.6	46.3
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)