

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: P671173

Luminaire Tested: **CCP-SA-1F-840-U-T4W**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671173
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-840-U-T4W
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T4W
distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6448.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

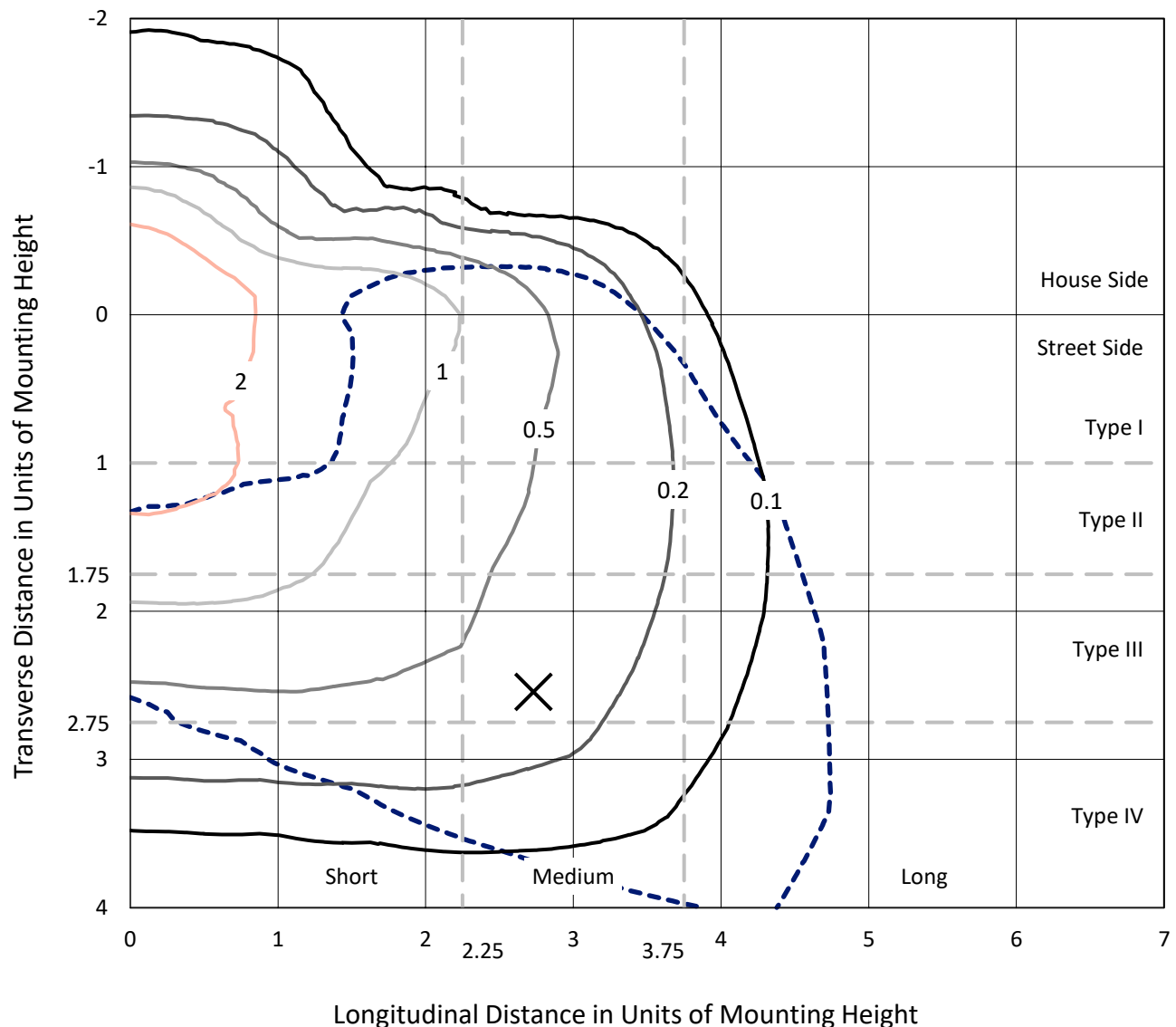
Input Watts (W): 67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P671173

CATALOG NUMBER: CCP-SA-1F-840-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

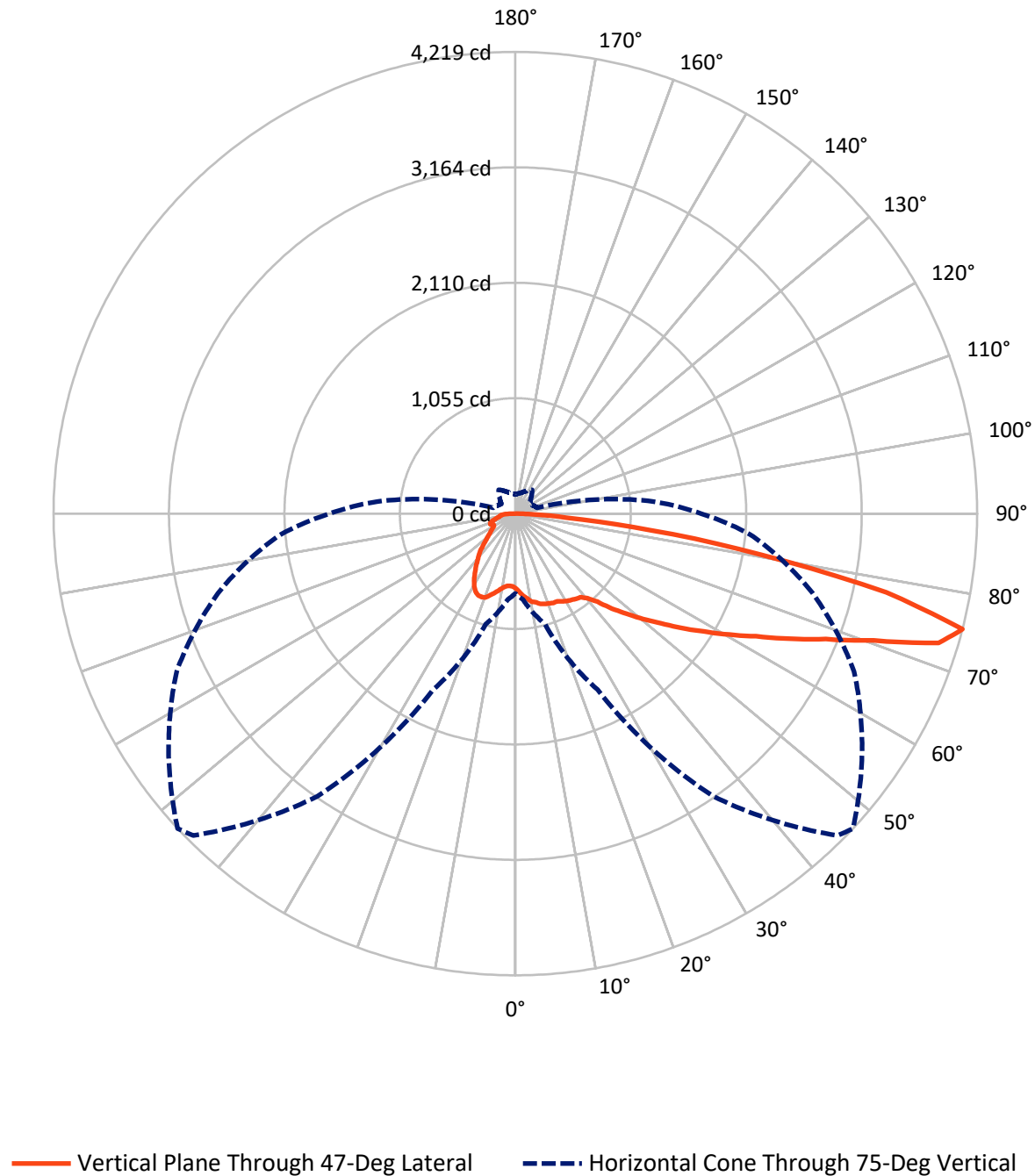
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P671173
CATALOG NUMBER: CCP-SA-1F-840-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P671173

CATALOG NUMBER: CCP-SA-1F-840-U-T4W

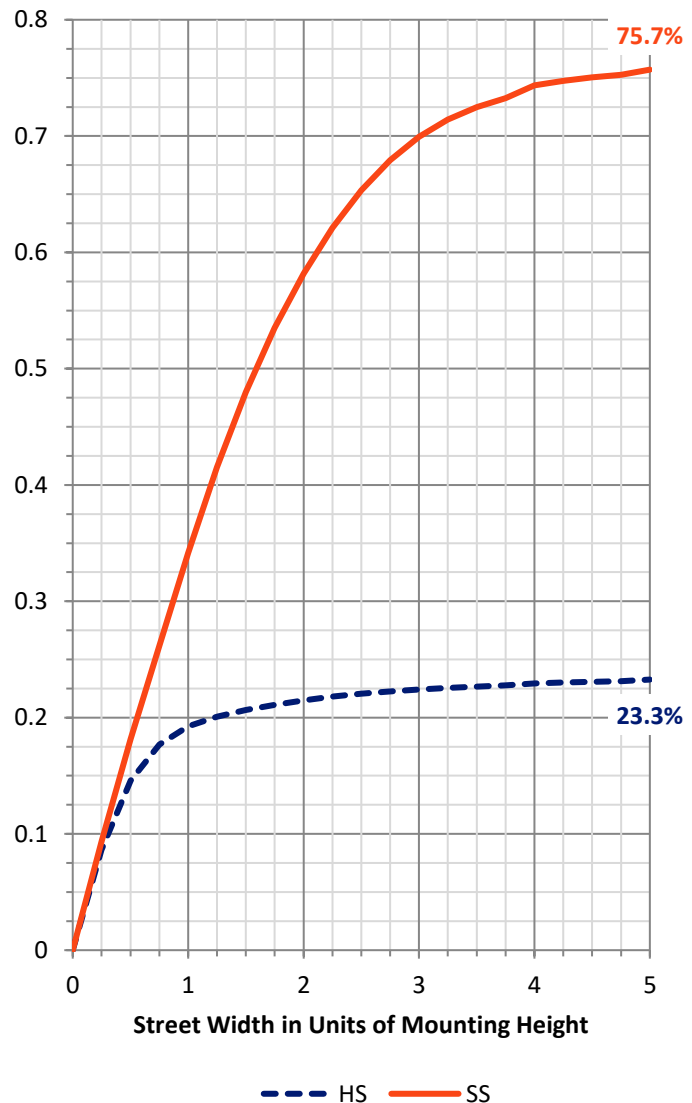
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.2	0.0	1542.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4906.7	0.0	4906.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	6448.9	0.0	6448.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.1
10°-20°	229.9	3.6
20°-30°	393.7	6.1
30°-40°	550.9	8.5
40°-50°	768.1	11.9
50°-60°	1148.1	17.8
60°-70°	1655.4	25.7
70°-80°	1409.1	21.8
80°-90°	224.5	3.5
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°	6448.9	100.0
0°-180°	6448.9	100.0



REPORT NUMBER: P671173

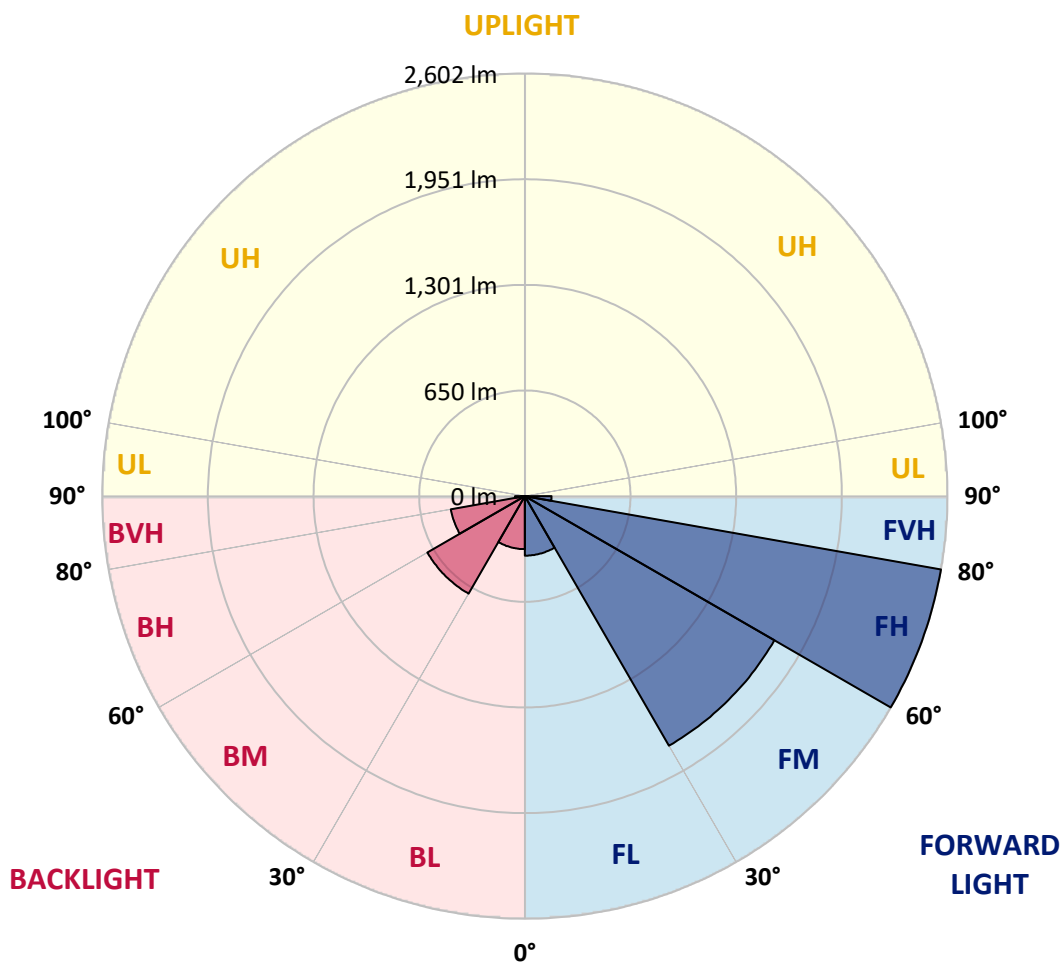
CATALOG NUMBER: CCP-SA-1F-840-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.4	5.7			
FM	(30°-60°)	1774.1	27.5			
FH	(60°-80°)	2601.8	40.3			G2/5000
FVH	(80°-90°)	164.5	2.6			G2/225
BL	(0°-30°)	326.4	5.1	B1/500		
BM	(30°-60°)	693.1	10.7	B1/1000		
BH	(60°-80°)	462.7	7.2	B1/500		G1/500
BVH	(80°-90°)	60.0	0.9			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 Medium





REPORT NUMBER: P671173

CATALOG NUMBER: CCP-SA-1F-840-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7
2.5°	734.2	736.5	736.5	731.8	727.1	717.7	717.7	708.3	703.6	691.8	687.1
5°	802.4	795.3	788.3	785.9	774.2	757.7	755.3	745.9	720.0	708.3	691.8
7.5°	851.8	849.5	847.1	837.7	816.5	790.6	783.6	769.4	743.6	720.0	701.2
10°	891.8	901.2	891.8	870.6	849.5	821.2	818.9	793.0	769.4	741.2	717.7
12.5°	936.5	938.9	922.4	896.5	863.6	840.0	830.6	821.2	795.3	771.8	736.5
15°	967.1	962.4	950.6	915.3	877.7	854.2	856.5	844.7	816.5	800.0	762.4
17.5°	967.1	967.1	948.3	922.4	889.5	868.3	868.3	861.2	842.4	818.9	793.0
20°	948.3	948.3	936.5	922.4	884.7	880.0	875.3	870.6	870.6	849.5	811.8
22.5°	924.8	920.0	924.8	901.2	875.3	880.0	887.1	884.7	877.7	858.9	833.0
25°	901.2	903.6	908.3	891.8	868.3	889.5	887.1	898.9	894.2	880.0	858.9
27.5°	898.9	903.6	905.9	889.5	880.0	898.9	908.3	920.0	922.4	908.3	882.4
30°	934.2	931.8	929.5	908.3	901.2	917.7	927.1	943.6	957.7	927.1	905.9
32.5°	1025.9	1011.8	997.7	941.2	920.0	931.8	941.2	964.8	967.1	950.6	920.0
35°	1171.8	1162.4	1115.3	1016.5	957.7	945.9	955.3	971.8	976.5	964.8	941.2
37.5°	1338.9	1334.2	1268.3	1148.3	1035.3	978.9	969.5	993.0	1011.8	985.9	953.0
40°	1503.6	1484.8	1437.7	1320.1	1134.2	1028.3	1016.5	1028.3	1035.3	1016.5	995.3
42.5°	1651.8	1630.7	1618.9	1501.3	1263.6	1110.6	1101.2	1073.0	1094.2	1070.6	1042.4
45°	1776.6	1771.9	1767.1	1666.0	1411.8	1244.8	1237.7	1164.8	1188.3	1169.5	1129.5
47.5°	1866.0	1887.2	1880.1	1823.6	1581.3	1388.3	1367.1	1273.0	1308.3	1289.5	1249.5
50°	1971.9	1983.6	1976.6	1938.9	1738.9	1553.0	1513.0	1416.5	1456.5	1454.2	1433.0
52.5°	2066.0	2101.3	2061.3	2058.9	1964.8	1731.8	1663.6	1571.8	1637.7	1663.6	1661.3
55°	2176.6	2204.8	2193.0	2188.3	2167.2	1906.0	1844.8	1734.2	1844.8	1882.4	1915.4
57.5°	2270.7	2268.3	2313.1	2367.2	2393.1	2106.0	2033.0	1903.6	2070.7	2113.0	2204.8
60°	2313.1	2353.1	2428.4	2564.8	2637.8	2320.1	2244.8	2141.3	2298.9	2331.9	2501.3
62.5°	2341.3	2376.6	2522.5	2753.1	2795.4	2538.9	2468.4	2364.8	2548.4	2571.9	2823.7
65°	2263.6	2296.6	2586.0	2823.7	2974.3	2774.3	2757.8	2649.5	2797.8	2811.9	3162.5
67.5°	2174.2	2209.5	2531.9	2913.1	3211.9	3087.2	3061.3	2931.9	3044.9	3028.4	3421.3
70°	2016.6	2063.6	2393.1	2990.7	3475.5	3524.9	3473.1	3289.6	3301.3	3146.0	3433.1
72.5°	1536.5	1567.1	1873.0	2682.5	3597.8	4132.0	4042.6	3675.5	3541.4	3169.6	3030.7
75°	729.4	785.9	1044.8	1774.2	3153.1	4160.2	4219.0	3866.1	3414.3	2811.9	2148.3
77.5°	211.8	211.8	317.7	753.0	1976.6	3353.1	3463.7	3282.5	2816.6	2082.5	1129.5
80°	115.3	122.4	167.1	265.9	868.3	2115.4	2275.4	2176.6	1658.9	823.6	291.8
82.5°	65.9	68.2	110.6	160.0	395.3	1150.6	1244.8	1129.5	630.6	249.4	136.5
85°	37.6	40.0	63.5	105.9	235.3	423.6	461.2	400.0	254.1	167.1	68.2
87.5°	18.8	18.8	30.6	49.4	120.0	120.0	117.7	143.5	152.9	101.2	30.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P671173

CATALOG NUMBER: CCP-SA-1F-840-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7
2.5°	684.7	682.4	682.4	673.0	670.6	663.6	663.6	658.9	656.5	663.6	663.6
5°	687.1	675.3	673.0	663.6	665.9	661.2	670.6	665.9	663.6	663.6	661.2
7.5°	691.8	680.0	670.6	663.6	661.2	668.3	680.0	680.0	694.2	687.1	687.1
10°	703.6	696.5	684.7	680.0	680.0	687.1	701.2	710.6	722.4	722.4	715.3
12.5°	731.8	720.0	705.9	698.9	708.3	715.3	729.4	738.9	753.0	757.7	753.0
15°	753.0	741.2	736.5	731.8	738.9	748.3	760.0	769.4	785.9	790.6	788.3
17.5°	781.2	767.1	764.7	767.1	771.8	778.9	785.9	793.0	804.7	804.7	804.7
20°	795.3	790.6	788.3	795.3	804.7	814.2	809.5	804.7	802.4	807.1	804.7
22.5°	821.2	816.5	818.9	825.9	825.9	821.2	814.2	797.7	793.0	797.7	793.0
25°	844.7	840.0	840.0	835.3	833.0	816.5	802.4	788.3	771.8	778.9	776.5
27.5°	868.3	865.9	865.9	847.1	823.6	795.3	776.5	760.0	750.6	762.4	755.3
30°	896.5	898.9	887.1	842.4	785.9	755.3	734.2	731.8	729.4	736.5	734.2
32.5°	922.4	924.8	905.9	835.3	757.7	698.9	677.7	680.0	691.8	703.6	715.3
35°	936.5	948.3	924.8	811.8	701.2	635.3	611.8	633.0	654.1	670.6	682.4
37.5°	962.4	993.0	953.0	785.9	651.8	578.9	562.4	569.4	595.3	621.2	633.0
40°	1000.0	1035.3	960.0	736.5	585.9	522.4	513.0	515.3	524.7	541.2	553.0
42.5°	1065.9	1103.6	967.1	673.0	520.0	487.1	461.2	454.1	447.1	447.1	444.7
45°	1162.4	1197.7	957.7	593.0	454.1	430.6	411.8	395.3	376.5	345.9	350.6
47.5°	1303.6	1331.8	964.8	522.4	393.0	374.1	360.0	341.2	313.0	280.0	277.7
50°	1517.7	1475.4	955.3	449.4	348.3	331.8	320.0	294.1	261.2	237.7	235.3
52.5°	1767.1	1682.4	945.9	388.3	310.6	296.5	287.1	258.8	228.2	216.5	214.1
55°	2068.3	1946.0	960.0	334.1	282.4	270.6	261.2	235.3	211.8	202.4	200.0
57.5°	2423.6	2230.7	1037.7	291.8	251.8	247.1	244.7	223.5	202.4	195.3	193.0
60°	2757.8	2503.7	1089.5	261.2	223.5	228.2	233.0	223.5	200.0	195.3	195.3
62.5°	3037.8	2729.5	1007.1	235.3	209.4	223.5	244.7	237.7	228.2	233.0	228.2
65°	3284.9	2807.2	753.0	221.2	202.4	235.3	270.6	268.2	247.1	251.8	249.4
67.5°	3327.2	2713.1	491.8	209.4	197.7	258.8	303.5	275.3	233.0	233.0	225.9
70°	3150.7	2461.3	329.4	197.7	195.3	258.8	310.6	258.8	218.8	218.8	209.4
72.5°	2586.0	1967.2	254.1	185.9	178.8	230.6	294.1	244.7	204.7	200.0	183.5
75°	1698.9	1268.3	207.1	176.5	155.3	202.4	265.9	225.9	195.3	181.2	174.1
77.5°	833.0	569.4	174.1	155.3	134.1	176.5	242.4	214.1	183.5	169.4	164.7
80°	228.2	204.7	145.9	136.5	112.9	152.9	228.2	204.7	171.8	157.7	150.6
82.5°	129.4	127.1	117.7	110.6	94.1	152.9	230.6	204.7	162.4	160.0	136.5
85°	70.6	75.3	84.7	82.4	72.9	136.5	218.8	178.8	131.8	110.6	110.6
87.5°	28.2	35.3	42.4	47.1	49.4	101.2	164.7	136.5	101.2	84.7	84.7
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)