

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: P671142

Luminaire Tested: **CCP-SA-2B-827-U-T4W**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671142
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-827-U-T4W
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4W
distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5121.5 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

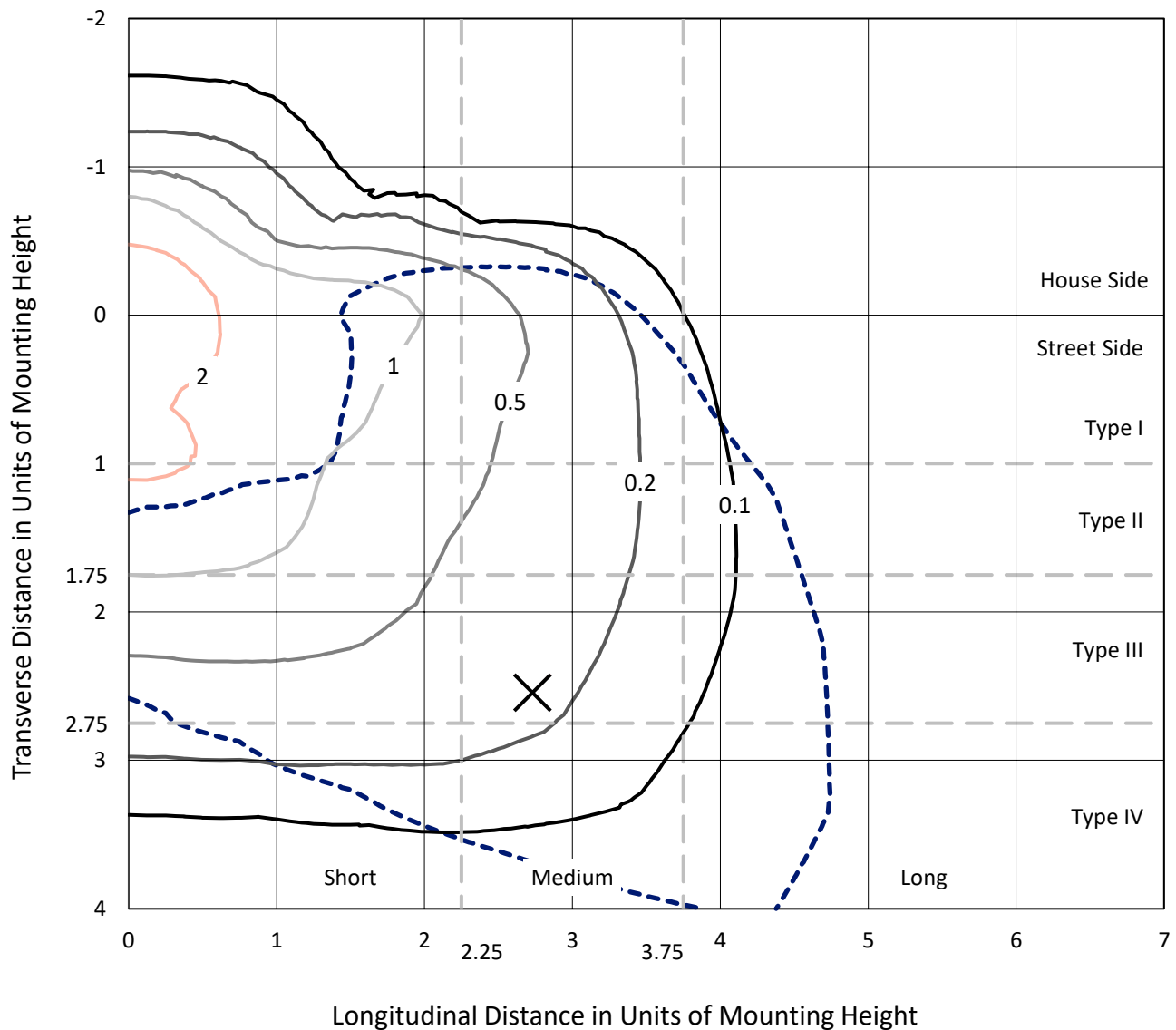
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

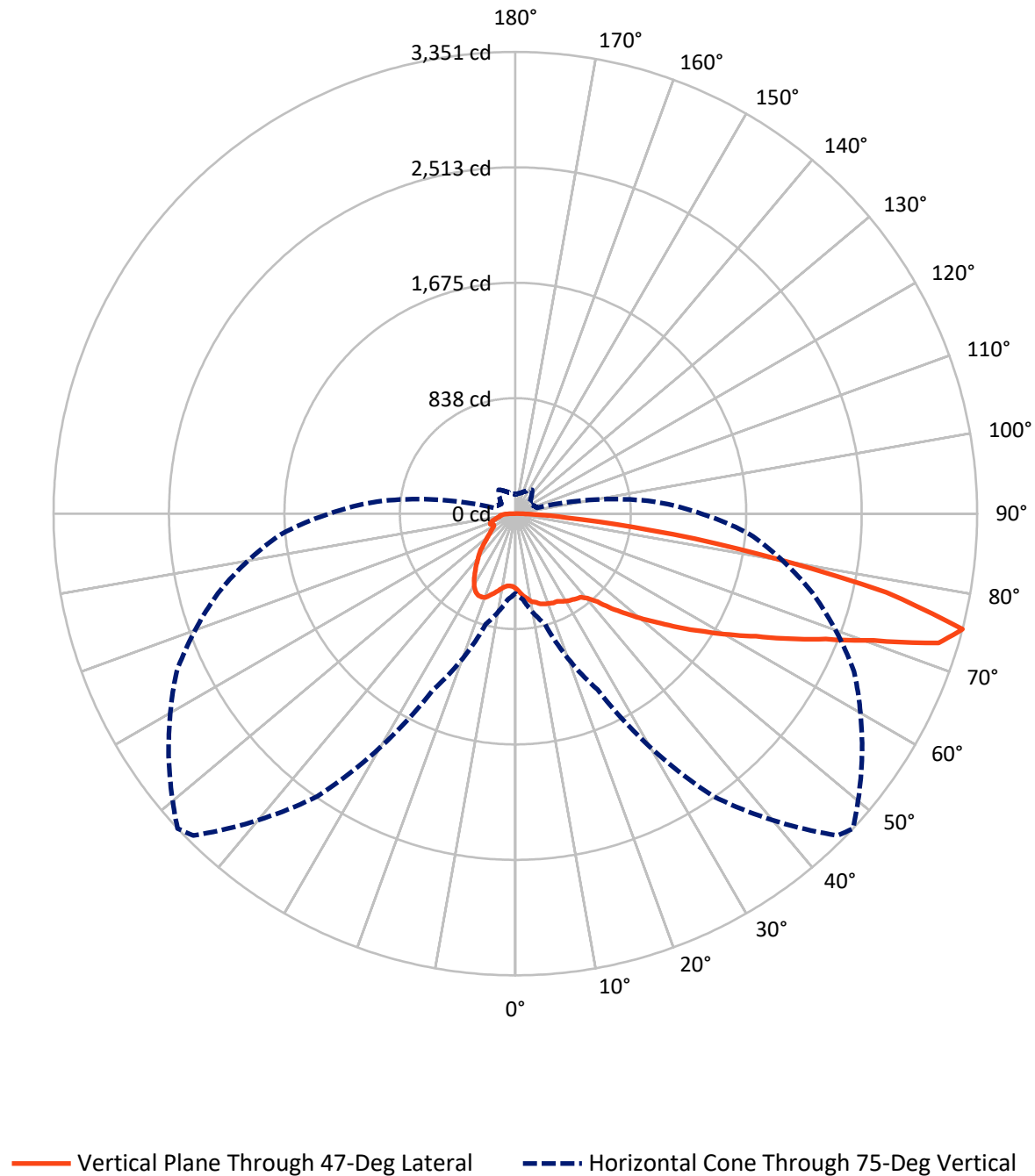
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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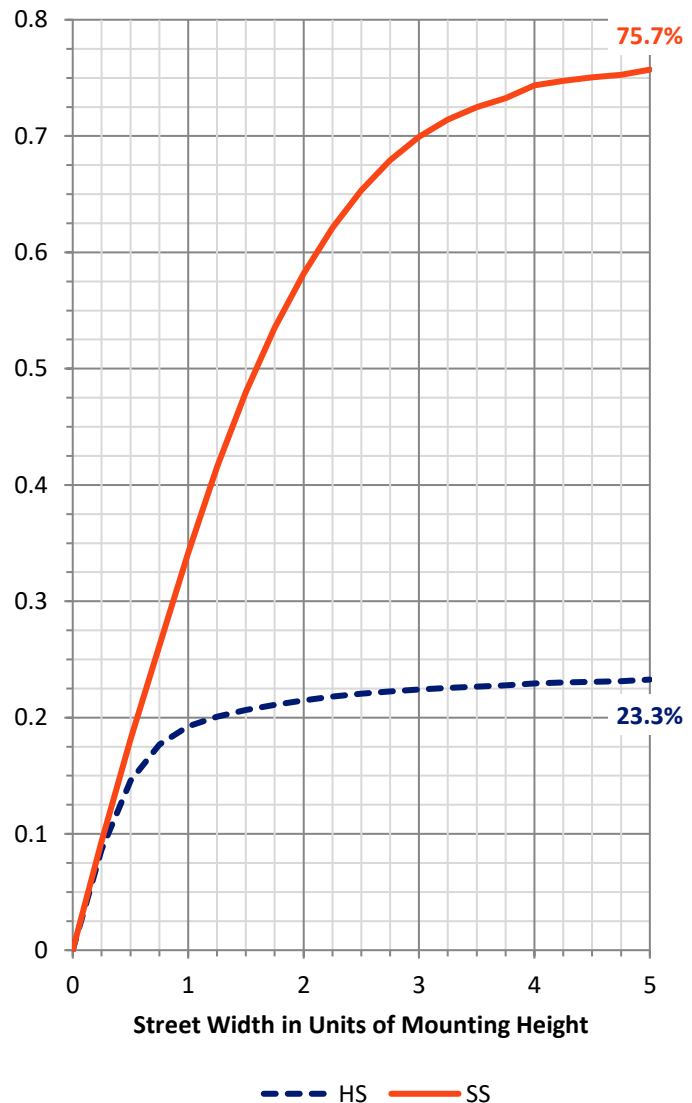
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1224.8	0.0	1224.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3896.7	0.0	3896.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	5121.5	0.0	5121.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.1
10°-20°	182.6	3.6
20°-30°	312.7	6.1
30°-40°	437.5	8.5
40°-50°	610.0	11.9
50°-60°	911.8	17.8
60°-70°	1314.6	25.7
70°-80°	1119.0	21.8
80°-90°	178.3	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°	5121.5	100.0
0°-180°	5121.5	100.0



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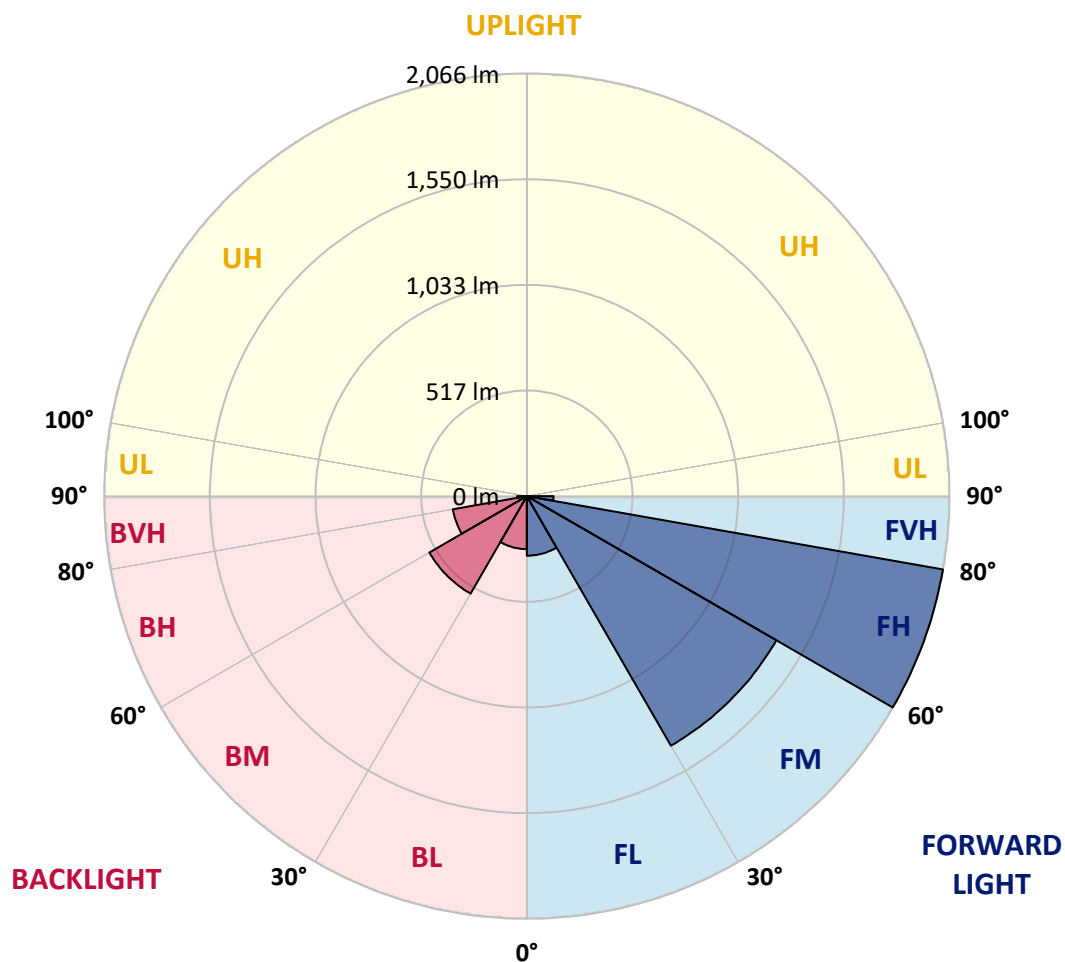
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.0	5.7			
FM	(30°-60°)	1408.9	27.5			
FH	(60°-80°)	2066.2	40.3			G2/5000
FVH	(80°-90°)	130.6	2.6			G2/225
BL	(0°-30°)	259.2	5.1	B1/500		
BM	(30°-60°)	550.5	10.7	B1/1000		
BH	(60°-80°)	367.4	7.2	B1/500		G1/500
BVH	(80°-90°)	47.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	583.0	584.9	584.9	581.2	577.4	570.0	570.0	562.5	558.7	549.4	545.7
5°	637.2	631.6	626.0	624.2	614.8	601.7	599.9	592.4	571.8	562.5	549.4
7.5°	676.5	674.6	672.7	665.3	648.4	627.9	622.3	611.1	590.5	571.8	556.9
10°	708.2	715.7	708.2	691.4	674.6	652.2	650.3	629.8	611.1	588.6	570.0
12.5°	743.8	745.6	732.5	712.0	685.8	667.1	659.7	652.2	631.6	612.9	584.9
15°	768.0	764.3	755.0	726.9	697.0	678.3	680.2	670.9	648.4	635.4	605.5
17.5°	768.0	768.0	753.1	732.5	706.4	689.6	689.6	684.0	669.0	650.3	629.8
20°	753.1	753.1	743.8	732.5	702.6	698.9	695.2	691.4	691.4	674.6	644.7
22.5°	734.4	730.7	734.4	715.7	695.2	698.9	704.5	702.6	697.0	682.1	661.5
25°	715.7	717.6	721.3	708.2	689.6	706.4	704.5	713.9	710.1	698.9	682.1
27.5°	713.9	717.6	719.5	706.4	698.9	713.9	721.3	730.7	732.5	721.3	700.8
30°	741.9	740.0	738.1	721.3	715.7	728.8	736.3	749.4	760.6	736.3	719.5
32.5°	814.8	803.6	792.3	747.5	730.7	740.0	747.5	766.2	768.0	755.0	730.7
35°	930.6	923.2	885.8	807.3	760.6	751.2	758.7	771.8	775.5	766.2	747.5
37.5°	1063.3	1059.6	1007.2	911.9	822.2	777.4	769.9	788.6	803.6	783.0	756.8
40°	1194.1	1179.2	1141.8	1048.4	900.7	816.6	807.3	816.6	822.2	807.3	790.5
42.5°	1311.8	1295.0	1285.7	1192.2	1003.5	882.0	874.6	852.1	869.0	850.3	827.8
45°	1410.9	1407.2	1403.4	1323.1	1121.2	988.6	983.0	925.0	943.7	928.8	897.0
47.5°	1481.9	1498.7	1493.1	1448.3	1255.8	1102.5	1085.7	1011.0	1039.0	1024.1	992.3
50°	1566.0	1575.3	1569.7	1539.8	1381.0	1233.4	1201.6	1125.0	1156.7	1154.9	1138.1
52.5°	1640.7	1668.8	1637.0	1635.1	1560.4	1375.4	1321.2	1248.3	1300.6	1321.2	1319.3
55°	1728.6	1751.0	1741.7	1737.9	1721.1	1513.7	1465.1	1377.3	1465.1	1495.0	1521.1
57.5°	1803.3	1801.5	1837.0	1879.9	1900.5	1672.5	1614.6	1511.8	1644.5	1678.1	1751.0
60°	1837.0	1868.7	1928.5	2036.9	2094.8	1842.6	1782.8	1700.5	1825.7	1851.9	1986.5
62.5°	1859.4	1887.4	2003.3	2186.4	2220.0	2016.4	1960.3	1878.1	2023.8	2042.5	2242.5
65°	1797.7	1823.9	2053.7	2242.5	2362.1	2203.2	2190.1	2104.2	2221.9	2233.1	2511.6
67.5°	1726.7	1754.7	2010.8	2313.5	2550.8	2451.8	2431.2	2328.4	2418.1	2405.1	2717.1
70°	1601.5	1638.9	1900.5	2375.2	2760.1	2799.4	2758.2	2612.5	2621.8	2498.5	2726.5
72.5°	1220.3	1244.6	1487.5	2130.4	2857.3	3281.5	3210.5	2919.0	2812.4	2517.2	2406.9
75°	579.3	624.2	829.7	1409.0	2504.1	3303.9	3350.6	3070.3	2711.5	2233.1	1706.1
77.5°	168.2	168.2	252.3	598.0	1569.7	2662.9	2750.8	2606.9	2236.9	1653.8	897.0
80°	91.6	97.2	132.7	211.2	689.6	1680.0	1807.1	1728.6	1317.5	654.1	231.7
82.5°	52.3	54.2	87.8	127.1	313.9	913.8	988.6	897.0	500.8	198.1	108.4
85°	29.9	31.8	50.5	84.1	186.9	336.4	366.3	317.7	201.8	132.7	54.2
87.5°	14.9	14.9	24.3	39.2	95.3	95.3	93.4	114.0	121.5	80.4	24.3
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°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	543.8	541.9	541.9	534.5	532.6	527.0	527.0	523.2	521.4	527.0	527.0
5°	545.7	536.3	534.5	527.0	528.9	525.1	532.6	528.9	527.0	527.0	525.1
7.5°	549.4	540.1	532.6	527.0	525.1	530.7	540.1	540.1	551.3	545.7	545.7
10°	558.7	553.1	543.8	540.1	540.1	545.7	556.9	564.4	573.7	573.7	568.1
12.5°	581.2	571.8	560.6	555.0	562.5	568.1	579.3	586.8	598.0	601.7	598.0
15°	598.0	588.6	584.9	581.2	586.8	594.3	603.6	611.1	624.2	627.9	626.0
17.5°	620.4	609.2	607.3	609.2	612.9	618.5	624.2	629.8	639.1	639.1	639.1
20°	631.6	627.9	626.0	631.6	639.1	646.6	642.8	639.1	637.2	641.0	639.1
22.5°	652.2	648.4	650.3	655.9	655.9	652.2	646.6	633.5	629.8	633.5	629.8
25°	670.9	667.1	667.1	663.4	661.5	648.4	637.2	626.0	612.9	618.5	616.7
27.5°	689.6	687.7	687.7	672.7	654.1	631.6	616.7	603.6	596.1	605.5	599.9
30°	712.0	713.9	704.5	669.0	624.2	599.9	583.0	581.2	579.3	584.9	583.0
32.5°	732.5	734.4	719.5	663.4	601.7	555.0	538.2	540.1	549.4	558.7	568.1
35°	743.8	753.1	734.4	644.7	556.9	504.6	485.9	502.7	519.5	532.6	541.9
37.5°	764.3	788.6	756.8	624.2	517.6	459.7	446.6	452.2	472.8	493.3	502.7
40°	794.2	822.2	762.4	584.9	465.3	414.9	407.4	409.3	416.7	429.8	439.2
42.5°	846.5	876.4	768.0	534.5	413.0	386.8	366.3	360.7	355.1	355.1	353.2
45°	923.2	951.2	760.6	470.9	360.7	342.0	327.0	313.9	299.0	274.7	278.4
47.5°	1035.3	1057.7	766.2	414.9	312.1	297.1	285.9	271.0	248.5	222.4	220.5
50°	1205.3	1171.7	758.7	356.9	276.6	263.5	254.1	233.6	207.4	188.7	186.9
52.5°	1403.4	1336.1	751.2	308.3	246.7	235.5	228.0	205.6	181.3	171.9	170.1
55°	1642.6	1545.4	762.4	265.4	224.2	214.9	207.4	186.9	168.2	160.7	158.8
57.5°	1924.8	1771.6	824.1	231.7	200.0	196.2	194.3	177.5	160.7	155.1	153.2
60°	2190.1	1988.3	865.2	207.4	177.5	181.3	185.0	177.5	158.8	155.1	155.1
62.5°	2412.5	2167.7	799.8	186.9	166.3	177.5	194.3	188.7	181.3	185.0	181.3
65°	2608.7	2229.4	598.0	175.7	160.7	186.9	214.9	213.0	196.2	200.0	198.1
67.5°	2642.4	2154.6	390.6	166.3	157.0	205.6	241.1	218.6	185.0	185.0	179.4
70°	2502.2	1954.7	261.6	157.0	155.1	205.6	246.7	205.6	173.8	173.8	166.3
72.5°	2053.7	1562.3	201.8	147.6	142.0	183.1	233.6	194.3	162.6	158.8	145.8
75°	1349.2	1007.2	164.4	140.2	123.3	160.7	211.2	179.4	155.1	143.9	138.3
77.5°	661.5	452.2	138.3	123.3	106.5	140.2	192.5	170.1	145.8	134.5	130.8
80°	181.3	162.6	115.9	108.4	89.7	121.5	181.3	162.6	136.4	125.2	119.6
82.5°	102.8	100.9	93.4	87.8	74.7	121.5	183.1	162.6	128.9	127.1	108.4
85°	56.1	59.8	67.3	65.4	57.9	108.4	173.8	142.0	104.6	87.8	87.8
87.5°	22.4	28.0	33.6	37.4	39.2	80.4	130.8	108.4	80.4	67.3	67.3
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)