

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: P672005

Luminaire Tested: **CCP-SA-2A-827-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672005
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-827-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ AFL
distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4059 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

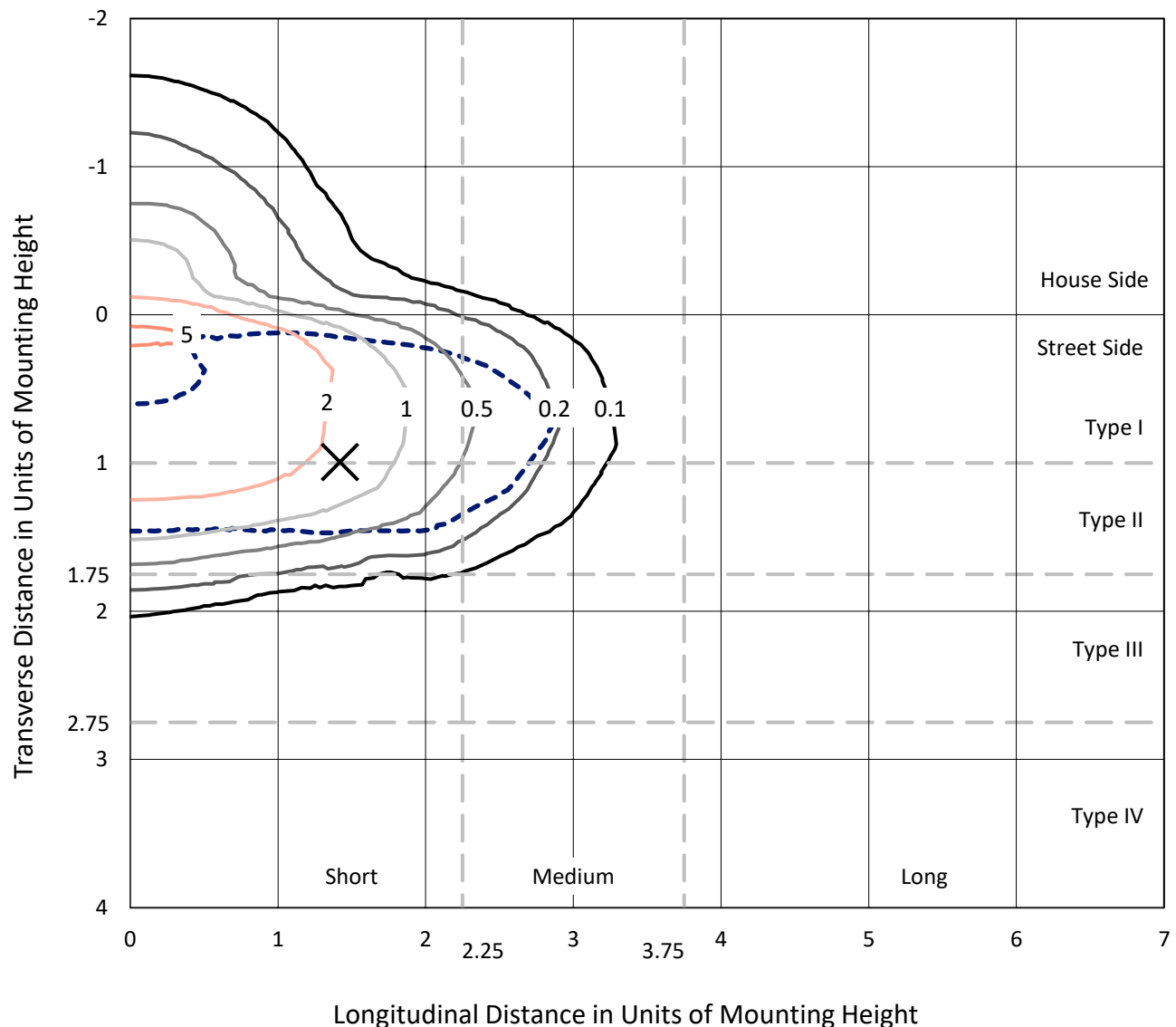
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

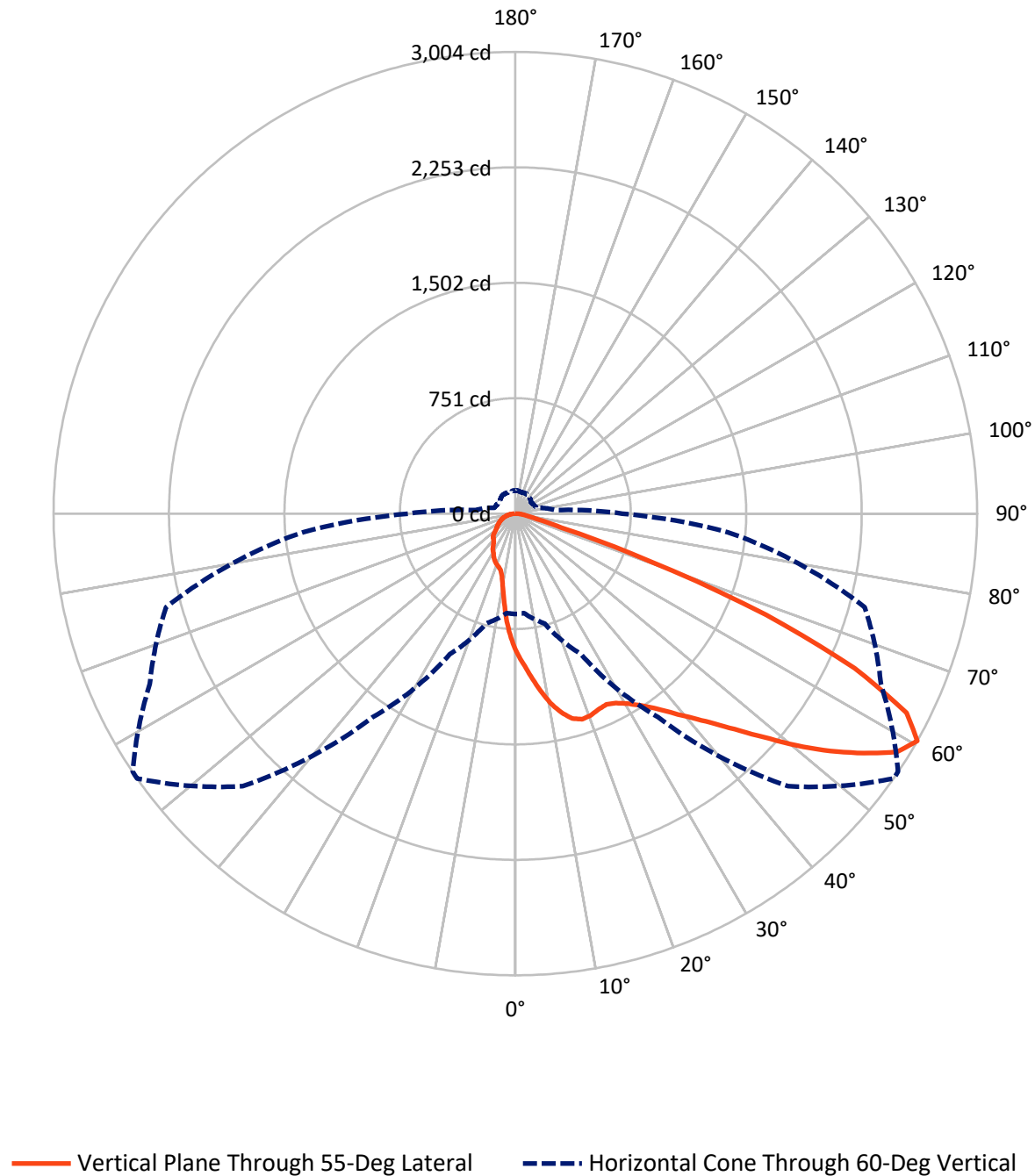
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	583.5	0.0	583.5
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	3475.5	0.0	3475.5
	% Fixture	85.6	0.0	85.6
Total	Lumens	4059.0	0.0	4059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	2.1
10°-20°	238.7	5.9
20°-30°	388.6	9.6
30°-40°	580.8	14.3
40°-50°	853.7	21.0
50°-60°	1000.5	24.6
60°-70°	659.7	16.3
70°-80°	210.1	5.2
80°-90°	42.7	1.1
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°	4059.0	100.0
0°-180°	4059.0	100.0

Coefficient of Utilization



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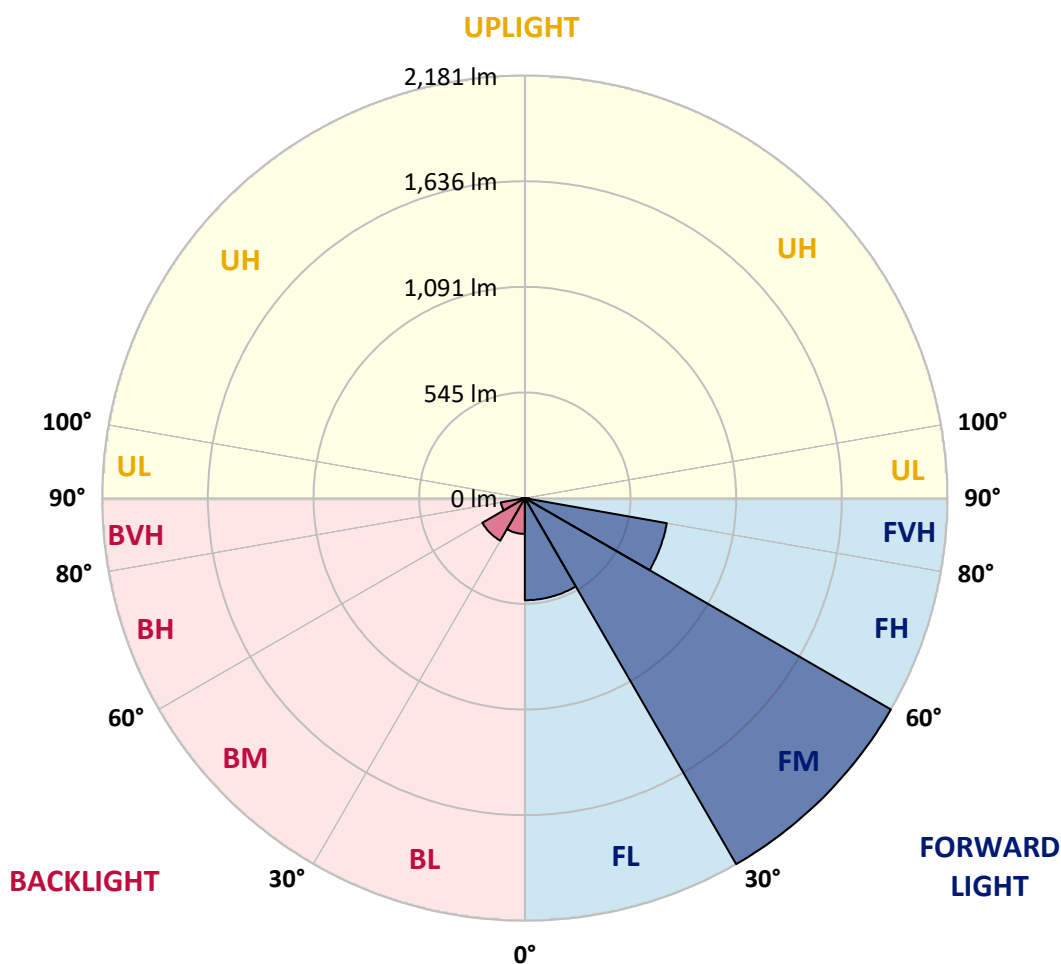
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.8	13.0			
FM	(30°-60°)	2181.4	53.7			
FH	(60°-80°)	743.9	18.3			G1/1800
FVH	(80°-90°)	23.4	0.6			G1/100
BL	(0°-30°)	184.7	4.6	B1/500		
BM	(30°-60°)	253.6	6.2	B1/1000		
BH	(60°-80°)	125.9	3.1	B1/500		G1/500
BVH	(80°-90°)	19.3	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2
2.5°	1047.6	1043.8	1043.8	1034.0	1019.6	999.6	975.8	969.9	960.8	937.6	907.6
5°	1207.3	1203.2	1197.6	1180.6	1153.8	1113.8	1063.5	1054.3	1021.7	973.7	919.6
7.5°	1312.9	1310.6	1308.8	1294.1	1267.6	1228.2	1160.8	1150.5	1095.2	1015.8	931.1
10°	1302.0	1309.1	1321.5	1331.8	1337.1	1316.8	1253.5	1241.4	1172.9	1064.6	948.1
12.5°	1200.0	1210.0	1232.9	1275.0	1323.5	1362.6	1326.8	1320.0	1255.9	1116.4	969.6
15°	1124.1	1128.2	1139.4	1170.5	1242.9	1347.4	1383.5	1377.4	1333.2	1182.9	994.3
17.5°	1100.5	1102.3	1104.9	1115.2	1164.7	1287.6	1406.8	1412.7	1408.2	1252.0	1022.3
20°	1112.3	1113.5	1113.8	1115.5	1139.1	1237.6	1400.6	1410.6	1474.1	1321.2	1049.9
22.5°	1157.6	1156.1	1154.1	1147.3	1160.5	1228.8	1384.1	1400.0	1525.0	1384.1	1075.5
25°	1236.7	1234.7	1220.3	1206.1	1211.7	1260.6	1375.3	1392.4	1564.8	1443.5	1094.4
27.5°	1330.9	1328.8	1314.1	1287.3	1281.5	1313.5	1395.9	1406.5	1593.9	1496.2	1102.6
30°	1428.5	1428.5	1410.3	1379.4	1360.6	1374.1	1433.8	1442.4	1615.9	1547.1	1107.9
32.5°	1535.0	1538.0	1509.7	1474.4	1453.6	1445.6	1487.1	1494.4	1648.0	1607.1	1119.1
35°	1671.8	1665.4	1630.9	1584.5	1550.9	1533.0	1553.0	1561.5	1695.1	1681.8	1137.0
37.5°	1825.7	1814.2	1771.9	1716.3	1657.7	1627.7	1640.9	1643.0	1764.8	1779.2	1169.7
40°	1952.8	1950.7	1914.8	1862.2	1788.3	1748.0	1741.6	1742.7	1861.6	1894.5	1219.1
42.5°	2059.9	2052.2	2045.7	2027.2	1949.0	1882.8	1856.3	1856.6	1966.6	2013.7	1268.8
45°	2107.2	2105.8	2124.9	2172.5	2116.3	2038.4	2000.7	2006.0	2086.9	2136.1	1316.8
47.5°	2086.9	2088.1	2139.3	2264.3	2297.6	2237.8	2171.1	2167.8	2203.4	2229.9	1359.1
50°	1905.7	1924.8	2063.4	2272.8	2416.4	2446.1	2370.8	2358.7	2305.5	2304.6	1385.0
52.5°	1768.9	1768.0	1853.1	2186.1	2458.5	2634.1	2566.4	2539.4	2389.9	2346.7	1387.1
55°	1584.2	1583.0	1646.2	1932.2	2374.9	2765.3	2750.9	2717.1	2467.3	2360.5	1372.9
57.5°	1199.7	1222.0	1285.0	1546.8	2110.2	2744.4	2927.1	2898.9	2542.9	2354.3	1370.3
60°	652.8	650.1	741.3	1008.2	1615.6	2507.3	3003.9	3002.4	2623.2	2352.0	1386.5
62.5°	300.9	298.0	316.2	448.9	926.4	2008.7	2855.6	2876.8	2697.6	2330.5	1385.0
65°	225.0	217.4	192.7	208.9	354.5	1199.1	2425.5	2482.0	2582.9	2242.3	1320.9
67.5°	200.6	193.3	164.4	154.2	178.0	423.0	1759.5	1811.6	2159.9	2076.9	1217.0
70°	183.9	177.4	148.6	132.4	133.6	187.4	921.1	1023.5	1583.0	1733.3	1037.3
72.5°	167.7	162.1	135.9	116.5	112.4	123.9	313.9	378.6	984.6	1263.2	773.4
75°	150.6	145.3	122.4	104.4	96.5	91.8	149.4	160.9	520.7	697.5	415.1
77.5°	130.9	128.0	109.1	92.1	85.3	69.4	99.4	104.4	223.0	273.9	197.7
80°	113.8	111.5	97.4	83.5	76.5	53.5	68.5	72.1	110.0	136.8	110.6
82.5°	74.1	80.0	80.6	71.8	67.4	43.0	45.3	48.0	73.0	80.6	48.2
85°	30.6	37.1	55.6	49.4	46.8	36.5	30.0	30.6	44.7	47.1	17.4
87.5°	13.8	15.3	27.4	27.7	24.1	13.8	15.0	16.5	22.9	22.7	7.6
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°	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2
2.5°	899.3	885.8	861.7	830.8	808.7	792.5	774.9	761.9	747.5	734.9	736.9
5°	897.3	871.1	816.9	759.6	703.7	657.8	619.5	591.3	562.2	550.7	549.2
7.5°	899.0	854.6	765.8	671.9	586.9	528.4	483.9	457.2	440.4	430.7	431.3
10°	898.4	839.0	710.4	581.0	488.0	434.5	407.4	398.6	397.1	398.3	400.1
12.5°	899.3	817.8	648.4	499.2	417.1	389.8	391.0	398.9	403.9	407.1	409.2
15°	903.1	800.5	584.8	434.8	380.1	381.0	393.6	406.0	413.3	416.9	418.6
17.5°	908.7	778.7	528.4	386.0	364.5	378.0	394.5	407.7	413.3	415.4	416.9
20°	909.3	753.7	471.3	352.4	354.2	371.8	386.3	396.9	403.9	406.3	407.4
22.5°	906.7	719.9	412.7	328.0	342.4	360.1	372.4	384.5	375.1	367.4	365.4
25°	895.5	677.2	362.7	308.0	327.7	344.2	358.3	345.1	340.7	334.8	335.4
27.5°	871.4	624.0	315.7	289.2	310.4	333.9	323.6	321.8	316.2	310.4	310.4
30°	839.6	567.8	276.2	269.5	289.5	301.2	303.6	300.9	297.7	290.1	290.7
32.5°	811.1	508.3	248.3	253.0	276.2	276.2	286.5	286.5	274.8	253.3	253.3
35°	782.8	452.5	227.7	239.2	254.5	259.5	273.6	255.1	238.3	228.6	228.0
37.5°	760.8	404.8	214.2	227.4	233.3	245.9	246.2	232.7	227.1	218.3	217.4
40°	747.8	364.8	205.9	221.5	222.1	233.9	214.5	218.3	217.1	210.3	209.5
42.5°	740.7	333.9	199.7	216.5	213.6	202.1	198.6	205.0	207.1	203.6	202.1
45°	735.2	309.8	194.7	199.2	206.8	185.9	184.5	189.5	193.9	193.6	192.4
47.5°	732.2	293.0	190.3	188.3	189.7	176.2	173.3	175.6	181.2	184.7	184.5
50°	720.7	280.1	183.9	177.1	167.7	167.7	166.2	166.2	173.0	180.0	180.6
52.5°	700.4	264.8	174.4	166.5	155.6	160.3	160.9	159.7	166.8	174.4	175.0
55°	678.1	253.3	161.8	156.8	145.6	153.6	156.2	155.0	159.7	165.0	164.7
57.5°	678.4	253.0	150.9	147.1	136.2	145.0	151.5	151.8	151.5	155.3	155.3
60°	695.4	258.9	142.4	134.1	125.3	135.9	146.5	146.5	144.4	150.0	150.6
62.5°	700.4	258.3	137.1	121.8	115.6	127.7	139.1	140.9	139.4	147.4	148.3
65°	656.3	244.5	131.8	110.6	106.8	118.6	130.0	135.0	133.6	143.9	145.0
67.5°	595.1	226.5	123.6	100.6	97.7	109.7	120.6	125.9	125.6	139.1	139.7
70°	513.1	204.5	113.3	90.3	88.8	99.4	109.1	114.7	117.4	133.0	132.7
72.5°	397.4	175.3	97.7	79.4	79.1	88.8	97.4	103.6	108.6	123.6	123.6
75°	256.2	138.0	79.7	68.8	67.7	76.8	85.6	92.7	108.0	131.8	131.5
77.5°	156.5	105.3	64.1	57.4	57.1	65.3	74.1	86.2	118.0	117.4	114.1
80°	93.8	75.6	51.2	45.9	45.9	53.5	63.2	92.4	98.0	111.8	105.6
82.5°	48.8	46.5	38.2	33.8	35.3	42.1	57.7	73.8	80.0	68.0	62.4
85°	20.0	24.7	23.5	21.5	22.4	29.1	55.6	59.1	47.4	49.7	50.0
87.5°	6.8	10.9	10.9	8.5	9.4	20.6	32.9	19.7	23.8	14.1	10.6
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)