

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: P674916

Luminaire Tested: **CCW-SA-1F-850-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674916
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-850-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T2 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6526.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

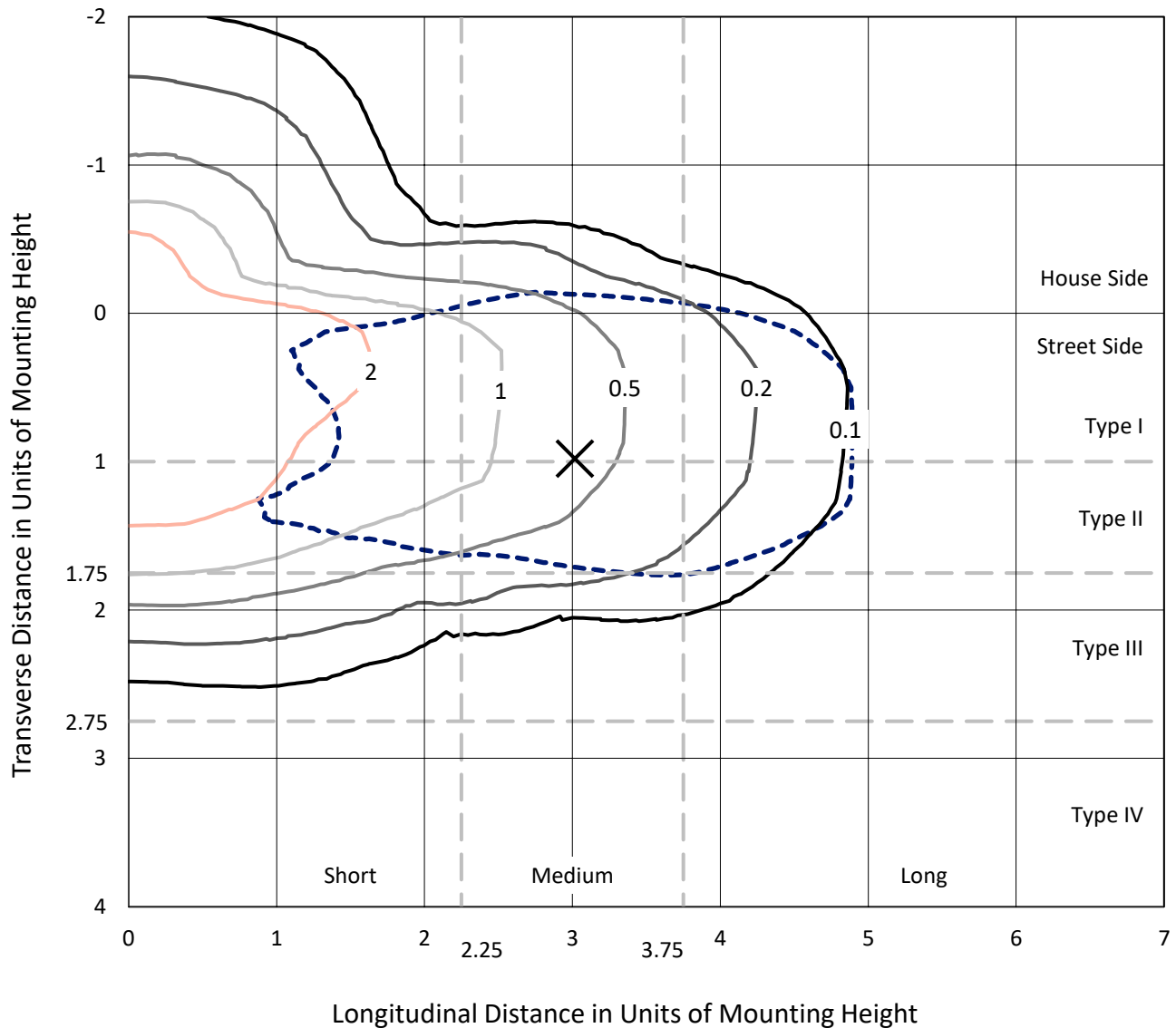
Input Watts (W): 67
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

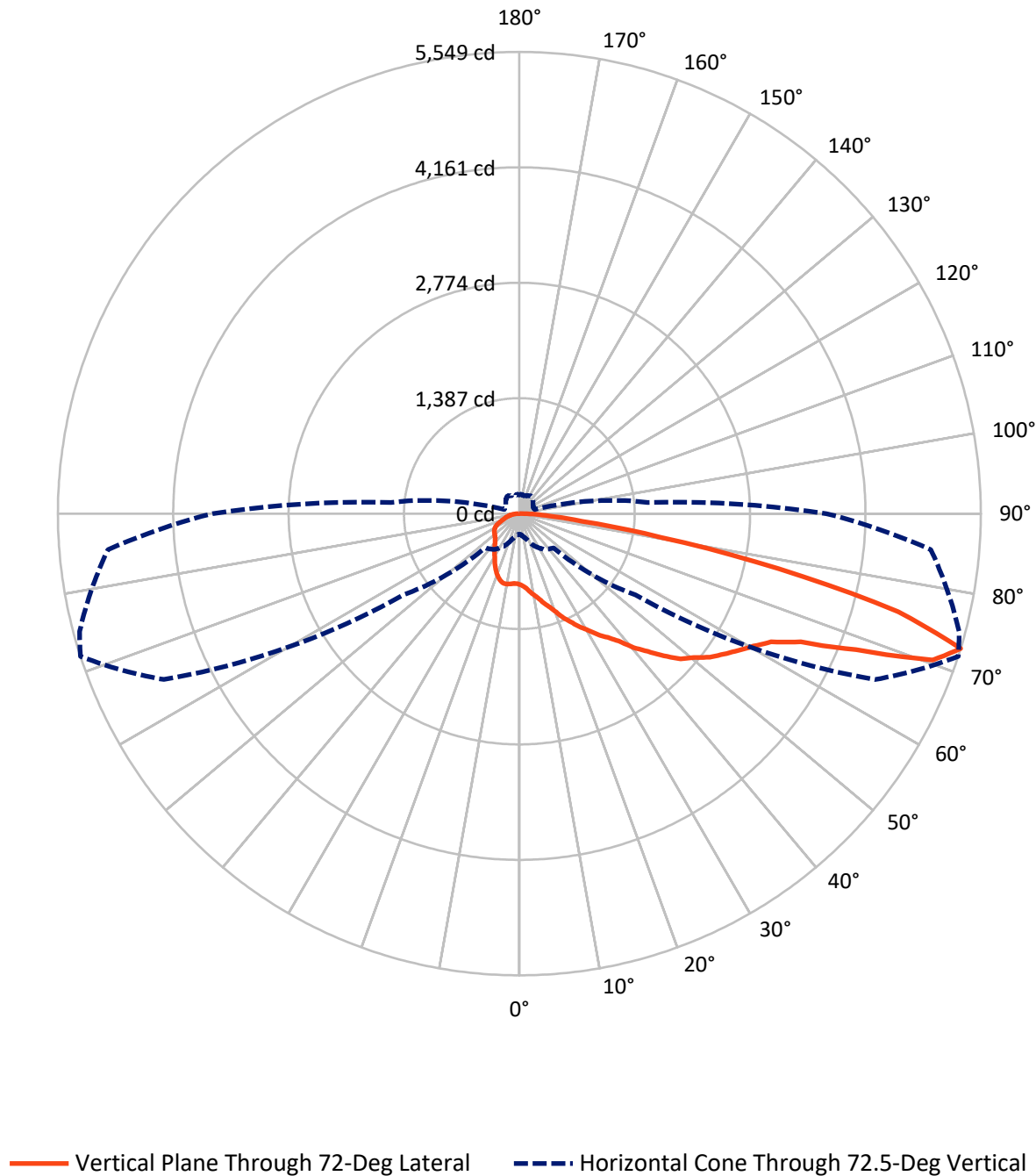
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1373.5	0.0	1373.5
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	5152.7	0.0	5152.7
	% Fixture	79.0	0.0	79.0
Total	Lumens	6526.1	0.0	6526.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.3
10°-20°	261.9	4.0
20°-30°	453.2	6.9
30°-40°	669.4	10.3
40°-50°	995.4	15.3
50°-60°	1364.7	20.9
60°-70°	1480.3	22.7
70°-80°	1043.6	16.0
80°-90°	173.4	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°	6526.1	100.0
0°-180°	6526.1	100.0

Coefficient of Utilization



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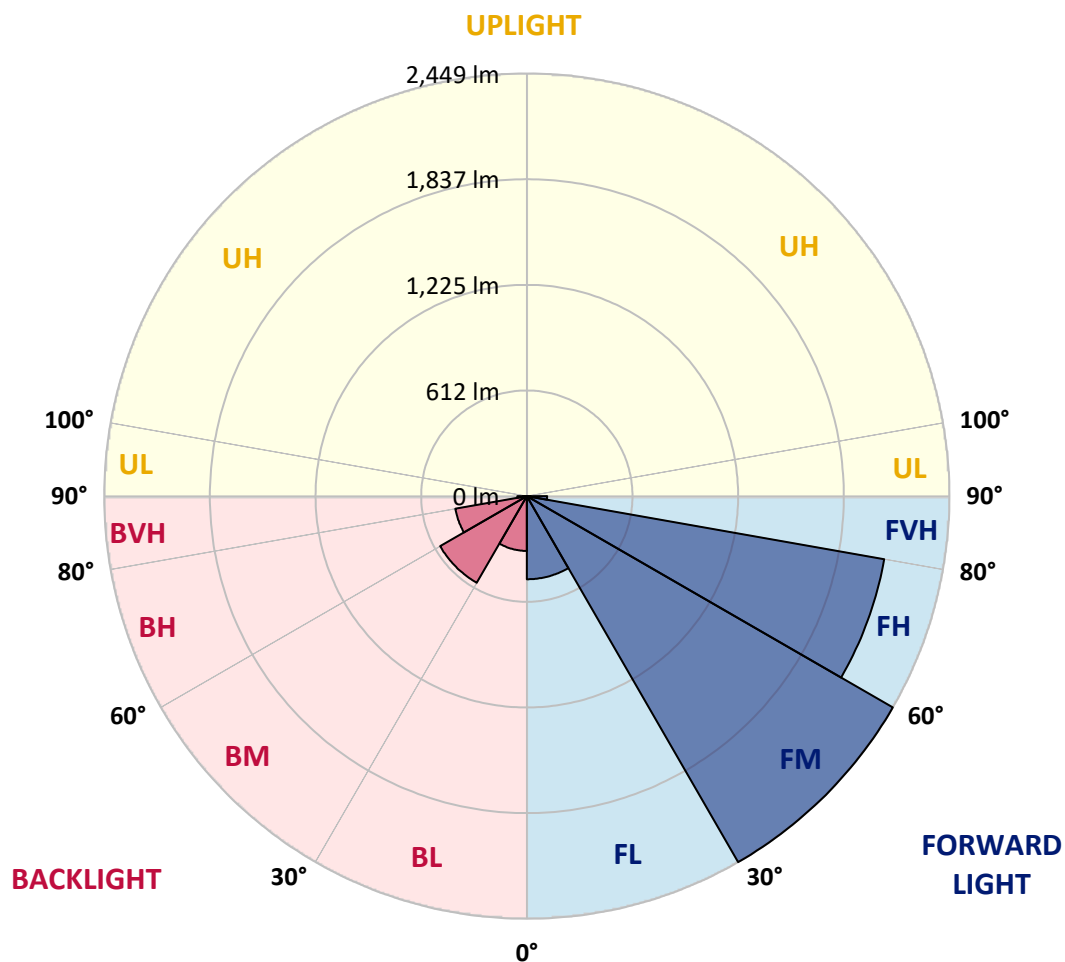
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.9	7.4			
FM	(30°-60°)	2449.4	37.5			
FH	(60°-80°)	2103.2	32.2			G2/5000
FVH	(80°-90°)	118.2	1.8			G2/225
BL	(0°-30°)	317.5	4.9	B1/500		
BM	(30°-60°)	580.1	8.9	B1/1000		
BH	(60°-80°)	420.7	6.4	B1/500		G1/500
BVH	(80°-90°)	55.2	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	919.9	919.9	912.7	910.3	910.3	891.0	893.4	881.4	871.8	871.8	862.1
5°	968.1	963.3	963.3	963.3	951.2	944.0	941.6	919.9	903.1	905.5	876.6
7.5°	980.1	982.5	984.9	997.0	989.8	994.6	989.8	965.7	953.6	941.6	915.1
10°	987.4	992.2	992.2	1009.0	1009.0	1021.1	1028.3	1018.7	997.0	984.9	941.6
12.5°	1004.2	997.0	1006.6	1018.7	1030.7	1052.4	1074.0	1064.4	1050.0	1035.5	987.4
15°	1004.2	1006.6	1013.8	1033.1	1052.4	1074.0	1112.6	1127.0	1119.8	1093.3	1042.7
17.5°	975.3	968.1	1001.8	1037.9	1074.0	1100.5	1151.1	1184.8	1180.0	1170.4	1093.3
20°	977.7	984.9	997.0	1028.3	1086.1	1134.3	1196.9	1252.3	1264.3	1259.5	1160.7
22.5°	1021.1	1023.5	1035.5	1050.0	1095.7	1158.3	1252.3	1341.4	1363.0	1351.0	1235.4
25°	1064.4	1083.7	1083.7	1093.3	1110.2	1175.2	1288.4	1413.6	1444.9	1447.3	1312.5
27.5°	1134.3	1139.1	1153.5	1158.3	1172.8	1211.3	1329.3	1466.6	1538.8	1529.2	1382.3
30°	1216.1	1218.5	1228.2	1223.4	1225.8	1273.9	1367.8	1526.8	1625.5	1627.9	1457.0
32.5°	1312.5	1331.7	1336.5	1305.2	1310.1	1322.1	1428.1	1599.0	1733.9	1717.0	1522.0
35°	1454.5	1461.8	1447.3	1432.9	1396.7	1389.5	1490.7	1671.3	1827.8	1847.1	1618.3
37.5°	1630.3	1649.6	1630.3	1553.3	1514.7	1485.8	1567.7	1750.7	1941.0	2006.0	1714.6
40°	1794.1	1791.7	1772.4	1702.6	1635.2	1613.5	1678.5	1861.5	2116.8	2179.4	1854.3
42.5°	1926.5	1919.3	1907.3	1854.3	1791.7	1755.6	1806.1	1977.1	2263.7	2384.1	2015.6
45°	2042.1	2032.5	2034.9	1974.7	1914.5	1933.8	1933.8	2109.6	2437.1	2586.4	2201.1
47.5°	2150.5	2155.3	2148.1	2102.3	2056.6	2107.2	2080.7	2261.3	2608.1	2774.2	2357.6
50°	2275.7	2285.4	2261.3	2232.4	2191.4	2242.0	2208.3	2403.4	2718.8	2945.2	2545.4
52.5°	2393.7	2403.4	2425.0	2388.9	2348.0	2388.9	2311.9	2535.8	2865.7	3111.4	2689.9
55°	2422.6	2417.8	2538.2	2576.8	2598.4	2475.6	2403.4	2649.0	2981.3	3217.3	2853.7
57.5°	2290.2	2302.2	2466.0	2576.8	2807.9	2702.0	2506.9	2781.5	3101.7	3357.0	3005.4
60°	1960.3	1967.5	2172.2	2434.7	2771.8	2913.9	2786.3	2952.4	3234.2	3475.0	3176.4
62.5°	1310.1	1365.4	1620.7	2032.5	2516.6	2971.7	3231.8	3241.4	3395.5	3624.3	3410.0
65°	691.1	717.6	917.5	1249.8	1907.3	2771.8	3650.8	3814.6	3718.2	3898.8	3747.1
67.5°	452.7	462.4	570.7	758.6	1100.5	2022.9	3699.0	4809.1	4366.0	4421.4	4286.6
70°	337.1	342.0	421.4	561.1	681.5	1081.3	3031.9	5273.9	5271.5	5124.6	4927.1
72.5°	248.0	255.3	310.7	428.7	525.0	582.8	1705.0	4717.6	5548.5	5473.8	4965.7
75°	195.1	199.9	228.8	332.3	423.8	382.9	864.5	3494.3	4705.6	5064.4	4544.2
77.5°	158.9	163.8	180.6	240.8	339.6	296.2	414.2	2254.1	3190.8	3646.0	3477.4
80°	132.5	132.5	144.5	171.0	262.5	224.0	245.6	1266.7	1719.4	1897.6	1577.4
82.5°	113.2	110.8	120.4	125.2	195.1	161.3	158.9	573.1	756.2	801.9	592.4
85°	72.2	74.7	113.2	108.4	127.6	110.8	89.1	272.1	356.4	363.6	221.6
87.5°	28.9	28.9	48.2	60.2	72.2	67.4	43.3	122.8	156.5	156.5	62.6
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°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	859.7	850.1	842.9	838.0	826.0	814.0	816.4	814.0	804.3	799.5	799.5
5°	869.4	859.7	847.7	828.4	816.4	801.9	806.7	797.1	787.5	794.7	782.7
7.5°	893.4	876.6	859.7	830.8	811.6	789.9	780.3	775.4	768.2	763.4	763.4
10°	927.2	903.1	871.8	828.4	797.1	763.4	758.6	748.9	741.7	741.7	739.3
12.5°	960.9	934.4	881.4	811.6	758.6	734.5	732.1	734.5	739.3	741.7	744.1
15°	1004.2	960.9	879.0	780.3	727.3	717.6	729.7	739.3	748.9	758.6	756.2
17.5°	1045.2	994.6	857.3	741.7	700.8	703.2	724.9	744.1	763.4	773.0	775.4
20°	1100.5	1025.9	826.0	696.0	674.3	696.0	724.9	748.9	770.6	782.7	785.1
22.5°	1163.2	1062.0	785.1	655.0	652.6	674.3	703.2	739.3	763.4	785.1	782.7
25°	1218.5	1086.1	732.1	621.3	626.1	640.6	674.3	712.8	736.9	761.0	753.8
27.5°	1254.7	1090.9	676.7	597.2	597.2	611.7	643.0	667.1	688.7	708.0	710.4
30°	1295.6	1081.3	614.1	565.9	565.9	585.2	597.2	611.7	623.7	628.5	633.4
32.5°	1343.8	1059.6	575.6	541.8	541.8	556.3	563.5	558.7	556.3	544.2	551.5
35°	1389.5	1028.3	532.2	510.5	520.2	527.4	525.0	510.5	496.1	474.4	467.2
37.5°	1444.9	997.0	493.7	476.8	493.7	496.1	496.1	479.2	460.0	433.5	433.5
40°	1529.2	972.9	462.4	455.1	472.0	469.6	457.6	445.5	452.7	438.3	438.3
42.5°	1618.3	963.3	433.5	435.9	443.1	445.5	433.5	419.0	447.9	431.1	433.5
45°	1729.1	970.5	414.2	411.8	428.7	426.2	419.0	407.0	416.6	373.3	361.2
47.5°	1832.6	984.9	404.6	394.9	414.2	419.0	409.4	382.9	368.5	342.0	337.1
50°	1926.5	1016.3	394.9	375.7	394.9	404.6	387.7	358.8	342.0	325.1	325.1
52.5°	2015.6	1062.0	390.1	354.0	370.9	382.9	373.3	344.4	325.1	317.9	310.7
55°	2107.2	1102.9	382.9	339.6	344.4	368.5	366.0	327.5	308.2	308.2	305.8
57.5°	2237.2	1158.3	373.3	315.5	325.1	351.6	351.6	320.3	298.6	301.0	303.4
60°	2369.7	1223.4	363.6	291.4	298.6	334.7	339.6	310.7	291.4	293.8	291.4
62.5°	2581.6	1343.8	344.4	262.5	276.9	313.1	325.1	298.6	281.8	286.6	286.6
65°	2901.9	1550.9	303.4	238.4	255.3	293.8	310.7	286.6	267.3	281.8	276.9
67.5°	3417.2	1835.0	255.3	219.1	240.8	274.5	293.8	272.1	255.3	276.9	269.7
70°	3879.6	1974.7	219.1	202.3	219.1	252.9	274.5	257.7	240.8	262.5	252.9
72.5°	3691.7	1548.5	190.2	183.0	199.9	228.8	255.3	238.4	221.6	233.6	224.0
75°	3186.0	1233.0	166.2	163.8	178.2	207.1	233.6	221.6	204.7	209.5	204.7
77.5°	2415.4	1018.7	142.1	139.7	151.7	185.4	209.5	199.9	183.0	180.6	180.6
80°	1078.9	500.9	118.0	118.0	125.2	158.9	178.2	173.4	156.5	154.1	151.7
82.5°	354.0	190.2	96.3	91.5	101.1	132.5	158.9	154.1	137.3	132.5	127.6
85°	142.1	91.5	69.8	69.8	79.5	110.8	142.1	132.5	110.8	98.7	98.7
87.5°	48.2	38.5	36.1	36.1	50.6	74.7	106.0	89.1	79.5	69.8	72.2
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)